

Houghton College

Course Catalog

2015-16

General Information

Philosophy

Houghton College, an educational institution of the Wesleyan Church, seeks to prepare “Scholar Servants” for effective engagement with the rapidly changing world of the 21st century. As “scholars,” students are trained in the theoretical knowledge of their field, but also in how to apply that knowledge to practical circumstances in this country and around the world. As “servants,” they are inspired to steward their gifts humbly and graciously in the name of Jesus Christ in whatever circumstances God calls them to serve.

To be prepared to serve effectively, a Houghton graduate must develop effective skills in listening, reading, written and spoken communication, computation, problem solving, logical reasoning and value discrimination. In addition, the graduate’s cumulative knowledge must provide a solid foundation for lifelong learning by a thorough grounding in one or more academic disciplines plus familiarity with fundamental concepts, principles and methods of the basic fields of knowledge. Learning must also relate disciplines to each other and to life in ways that assist in making wise decisions and appreciating one’s individual heritage, while respecting cultural diversity and the integrity of creation.

To be inspired to serve with grace, the graduate must encounter positive models through life examples from Houghton’s faculty and staff. Their reasoned faith must rest on sufficient knowledge of the Bible and its central doctrines to communicate Christianity effectively to others. Their lives translate that knowledge into the daily circumstances of a worshipping and learning community.

To achieve its ideals, Houghton College will sustain a scholarly community of believers who confess the Lordship of Jesus and who actively seek truth and recognize its foundation in Christ. The faculty and staff will strive to provide a challenging and stimulating intellectual environment which is also nurturing and supportive. The community will also be characterized by the historic distinctives of The Wesleyan Church, including purity of heart and life, concern for justice in social issues and unselfish stewardship of time and the material provisions of creation.

Creedal Statement

Christian institutions over the past 2000 years have attempted to articulate the framework of their convictions in cognitive terms called creeds. As an academic institution, we recognize that all learning happens within a framework of assumptions and presuppositions about the ultimate questions of human existence--the meaning of persons and the source and limits of knowledge. At Houghton, as at most Christian liberal arts colleges, we seek to make these assumptions explicit.

Our framework of conviction draws heavily on the affirmations of the Apostle's Creed. It also reflects the particular concerns of the historical period within which it was articulated.

It is these convictions that we bring into dialogue with our academic studies, in ways that both our faith and our studies may be enlarged and sharpened.

This statement of doctrinal views has been adopted by the board of trustees of Houghton College:

- *We believe that the Scriptures of the Old and New Testaments are fully inspired of God and inerrant in the original writings, and that they are of supreme and final authority for faith and practice.*
- *We believe that there is one God, eternally existing in three persons: Father, Son, and Holy Spirit.*
- *We believe that God created the entire universe, including human beings, by special operation of divine power.*
- *We believe in the fall of Adam and Eve and the consequent sinful nature of all humanity which necessitates a divine atonement.*
- *We believe in Jesus Christ as truly God and truly man, and in His virgin birth, His matchless teachings, His vicarious death, His bodily resurrection, and His promised second coming.*
- *We believe in justification by grace through faith and in regeneration by the Holy Spirit, who makes the penitentbeliever a new creature in Christ and commences His lifelong sanctifying work.*
- *We believe that the Christian may be filled with the Holy Spirit, or sanctified wholly, as a definite act of divine grace wrought in the heart of the believer to take full possession, cleanse, and equip for service on condition of total surrender and obedient faith.*
- *We believe in the personal existence of Satan.*
- *We believe in the bodily resurrection of the dead--of the saved to everlasting blessedness and of the lost to everlasting punishment.*

Community Expectation

All community members, including students, commit to Houghton's Community Covenant. This commitment signals our desire to live together in Christian community and fellowship. The Student Guide gives a more complete statement of expectations for community life, including student behavior and lifestyle.

As part of our commitment to community life, the Houghton community gathers for chapel three times a week (Monday, Wednesday and Friday). Students commit to attending at least 2/3 of these chapels per semester.

Locations

Houghton College's main campus is in the hamlet of Houghton, Allegany County, in western New York, about 65 miles southeast of Buffalo and 70 miles southwest of Rochester. It is in the heart of the Genesee country, rich in historic Archaic, Lamoka, and Woodland Native American cultures. The campus sits on the Allegheny Plateau at roughly the 1,300-foot level, on the site of the former Caneadea Indian Reservation of the early 1800s. Fifteen miles to the north are the Genesee's magnificent Portage Falls and Letchworth State Park. On all sides is the scenic beauty of the rolling hills and northern hardwood forests of western New York State. Allegany County, with extensive state forest land, abundant wildlife, and cross-country and downhill ski trails, is rapidly developing into a leading recreation area of western New York.

When the former Buffalo Bible Institute in West Seneca merged with Houghton College in 1969, the West Seneca campus was created. The programs on this campus evolved from lower-divisional

status to specialized courses and internships designed to complement majors offered on the main campus, particularly those requiring an urban setting.

Houghton College has moved the focus of its work from the former Buffalo Bible Institute site in West Seneca to various sites within and around the city of Buffalo. Our involvement is now in Adult Education, Houghton in Buffalo Associate of Arts (Symphony Circle), Chapel CrossPoint (Getzville), Wesley Service Corps, and various other ministries of co-curricular education and service.

Academic Standing and Regulations

Houghton College is fully accredited by the Regents of the University of the State of New York and by the Middle States Commission on Higher Education. The Middle States Commission on Higher Education, 3624 Market St, Philadelphia, PA 19104 (267.284.5000) is an institutional accrediting agency recognized by the U. S. Secretary of Education and the Council for Higher Education Accreditation. The most recent renewal of this status was awarded in 2015.

The Greatbatch School of Music is a member of and accredited by the National Association of Schools of Music, and the requirements for entrance and for graduation as set forth in this catalog are in accordance with the published regulations of the National Association of Schools of Music, 11250 Roger Bacon Drive, Suite 21, Reston, VA 20190. (703.437.0700.)

The Education Department is a member of and accredited by the Teacher Education Accreditation Council, One Dupont Circle, Suite 320, Washington, D.C. 20036. (202.466.7236.) N.B. The Teacher Education Accreditation Council (TEAC) is in the process of consolidation and transition to the Council for the Accreditation of Educator Preparation (CAEP). TEAC will sunset after the final TEAC accreditation cycle in fall 2023. TEAC is administered through CAEP.

Houghton Graduates

Each year an average of 65 percent of Houghton's graduates go on to full-time employment. The remaining 35 percent enter graduate school within a year of leaving Houghton. Approximately 16 percent of our graduates go into full-time Christian service. The remainder tend to enter professional fields such as education, business, medicine, law and social services. Post-graduation statistics are available from the career services office.

Consortiums

Consortium activities increase learning opportunities for students by bringing special offerings to campus and by creating the opportunity for selected sophomores or juniors to enroll with ease in special offerings at other consortium colleges.

- Christian College Consortium
- Council for Christian Colleges and Universities
 - See the Off Campus Study Opportunities for information about the Off Campus options of the CCCU.

- Western New York Higher Education Consortium
- Five-College Committee
 - Houghton is also part of an ongoing consortium relationship with four other colleges serving the northern tip of Appalachia: St. Bonaventure University, Alfred University, Jamestown Community College (Olean) and the SUNY College of Technology at Alfred. Details of cross-enrollment opportunities may be found through the academic records office.
- Rochester Area Colleges
 - The Rochester Area Colleges is a consortium of higher education institutions in the Rochester, New York, area. Founded in 1970, Rochester Area Colleges has numerous area public and private colleges as members and provides numerous collaborative working opportunities for colleges and their students. The purpose of the association is to support the functions of career development, placement and experiential education in the region.
 - Participating institutions include: Alfred University, Colgate Rochester Crozer Divinity School, Finger Lakes Community College, Genesee Community College, Hobart and William Smith Colleges, Houghton College, Keuka College, Monroe Community College, Nazareth College, Roberts Wesleyan College, Rochester Institute of Technology, St. Bernard's Institute, St. John Fisher College, SUNY Alfred, SUNY Brockport, SUNY Empire State College, SUNY Geneseo, University of Rochester and Wells College. For further information, contact the academic records office.

Policy Information

- Army ROTC
- Educational Rights and Privacy Act
- Crime Statistics Reporting
- Harassment Policy and Prevention

Administrative Staff

Name	Title
Mark Alessi	Administrative Systems Manager
Brianna Allen	Head Softball Coach; KPAC Facilities Marketing & Scheduling Coordinator

Cindy Austin	Transfer Admission Counselor
Jeffrey Babbitt	Director of Marketing and Communications
Erin Bard	Administrative Programmer/Analyst
David Brubaker	Dir. of Student Health Services; College Physician; Asst. Prof.
Nancy Cole	Volleyball Coach
Benjamin Colter	Donor Relations Coordinator
Jonathan Craton	Resident Director, Rothenbuhler Hall
Rebecca Crouch	Director of Conferences
Laura Cunningham	Resident Director, Gillette Hall
Kevin Dibble	Coordinator of Music Admissions & Recruitment and Assistant Director Choral Activities
Steven Dunmire	Director of Ministry Resources
Alan Dusel	Assistant Director of Technical Arts
Raymond Ellis	Head Men's & Women's Tennis Coach
Molly Fleming	Admission Counselor
Andrew Gaerte	Regional Director of Development

Phyllis Gaerte	Director of Community Relations
Marshall Green	Public Relations Specialist
Kurtis Habecker	Administrative Systems Programmer
Patrick Hager	Head Cross Country, Track & Field Coach
Donald Haingray	Director of Technology Services
Deanna Hand	Head Athletic Trainer and Senior Woman Administrator
Andrew Hannan	Head Men's Basketball Coach and Director of Nielsen PEC Student Employees
Sharleen Holmes	Library Operations Manager
James Hutter	Associate Director of Academic Records
Kevin Jackson	Director of Sound and Recording
Nicole Kuehner	Admission Counselor
Cindy Lastoria	Director of Operations for the President
Joseph Liddick	Regional Director of Development
Jay Livingston	Associate Director of Technology Services

Marianne Loper	Director, Student Financial Services
Kerri Lord	Admission Counselor
H. Skip Lord	Executive Director of Athletics
Jonathan Maroni	Assistant Director of Admission
Krista Maroni	Resident Director - Lambein Hall
Susan Martin	Graduation Counselor
David Mercer	Controller
J. L. Miller	Resident Director - Townhouses
Alicia Mucher	Head Women's Basketball Coach and Assistant S.I.D.
Jason Mucher	Director of Compliance and Communication
Chad Muise	Admission Counselor
Daniel Noyes	Regional Director of Development
Andrew Oden	Visit Office Coordinator
Helena Oden	Director of Campus Store
John Oden	Director of Advancement Services

Eden Palmer	Assistant Athletic Trainer
Ray Parlett	Director, Campus Safety & Security
Brian Reitnour	Head Baseball Coach; Assistant Sports Information Director
Brandon Rush	Senior Creative Designer
Elizabeth Rutledge	Assistant Director for Admission Events and Office Operations
Karl Sisson	Director of Development
Ryan Spear	Associate Director of Admission Operations
Nancy Stanley	Human Resources Administrator and Payroll Supervisor
Jason Stephens	Resident Director, Shenawana Hall
Seth Taylor	Network Administrator
Zina Teague	Admission Counselor
Christopher Tetta	Web Coordinator
Matthew Webb	Head Men's Soccer Coach; Assistant Athletics Director
Joseph Wilmot	Head Men's Lacrosse Coach
Dale Wright	Executive Director Human Resources and Administration

Amanda Zacchigna	Head Women's Lacrosse Coach
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Buildings and Facilities

Campus map and building and facilities information.

Computing Facilities

The college offers wired network access for each student in college-owned dormitories and townhouses as well as a robust campus-wide wireless network. The majority of classrooms have projection technology. There are several wired classrooms and two distance learning facilities. The Art, Music, Communication and Computer Science departments maintain labs for department-specific applications. General use computers and print centers are located in the basement of the Campus Center and on the second floor of the library. Additional Print Centers are located in the Chamberlain Center, Library, Paine Science Center, Center for the Arts and in the laundry room of the Hazlett Town House.

Health Center

Located in the lower level of the southwest wing of Gillette Hall, it contains exam rooms, a nursing treatment room, reception area and conference room.

Trustees and Officers

Board of Trustees

Names	City and State
David Babb	Allentown, PA

Gary Bahler	Stockbridge, MA
Evelyn Barnett	Roseville, CA
Kevin Batman	Marion, IN
Robert Davidson	Otego, NY
James Eckert	Bristow, VA
John Gillette	Mooers, NY
Anthony Graham	West Hempstead, NY
Russ Gunsalus <i>Ex officio, non-voting</i>	Indianapolis, IN
Carole Hamm	Lewisburg, PA

Stanley Hoover	Annapolis, MD
David Irwin	Berkeley, CA
Joseph Jennings (secretary)	Eden, NY
Daniel Jones	Calendonia, NY
William Jones	Greensboro, MD
Ray Kaltenbaugh	Sandy Lake, PA
Kevin Knowlton	Lakeland, FL
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John Lee	Orchard Park, NY

J. Anthony Lloyd	Framingham, MA
John Lyon	Arlington, VA
Jeffrey Mansell	Hilliard, OH
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Gregory McClain	Hamburg, NY
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Clifton Seaman	Churchville, NY
Terry Slye (vice chair)	Saint Paul, MN

Bobbie Strand (chair)	Minneapolis, MN
David White (assistant secretary)	Clarence, NY
Harry F. Wood	Orefield, PA
Ruth Woodworth	Fredericton, NB

Trustee Emeriti

- Daniel Chamberlain, President Emeritus
- Melvin Dieter, Chair Emeritus
- Robert Kaltenbaugh
- Ian Lennox, Chair Emeritus
- John Mervine

President's Advisory Board (PAB)

Names	City and State
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David Adams	Philadelphia, PA
Daniel Bates (chair)	Portland, OR
Debra Canfield	Fulton, NY
Jeffrey Clay	Mechanicsburg, PA
Jeffrey Hoffman	Gilbert, AZ
Jeremy Martin	Williamsburg, VA
Carmen McKell	Ottawa, ON
Jennifer McNiven	Fishers, IN
Jamey Moran	Williamsville, NY

Audrey Moses	Houston, TX
Brian Osterhus	Westwood, NJ
Jeffrey Prinsell	Marietta, GA
Gordon "Don" Purdy	Buffalo, NY
Robert Reese	Kennett Square, PA
James Rogan	Tell City, IN
David Tideman	Landenberg, PA
Robert Van Dyk	Ridgewood, NJ
Richard Vienne	Buffalo, NY

Chief Officers of Administration

Name	Title
Eric Currie, MDiv	Vice President for Enrollment
Rick Melson, MCM, PhD	Vice President for Advancement and External Relations
Shirley Mullen, PhD	President
Robert Pool, PhD	Vice President for Student Life
Linda Mills Woolsey, PhD	Dean of the College and Vice President for Academic Affairs
David Smith, BA	Vice President for Finance and Planning

Admission Information

Houghton seeks to admit students who appear capable of success. The Office of Admission carefully reviews each application, including transcripts, standardized test scores, recommendation(s) and other supporting documents.

Non-discrimination

Houghton College admits students of any race, color, or national and ethnic origin to all the rights, privileges, programs and activities generally accorded or made available to students at the school. It does not discriminate on the basis of sex, race, color, national or ethnic origin, or handicap in administration of its educational policies, admission policies, scholarship and loan options, and athletic or other school-administered offerings. The college reserves the right to operate as a church-related institution and to develop policies consistent with the religious tenets of its sponsoring denomination, The Wesleyan Church.

Application Forms

A student will be considered for admission after all parts of the application are received, including the signed completed application form, a recommendation, high school transcripts, SAT or ACT scores and the application fee. While Canadian applicants are not required to submit SAT or ACT scores, doing so is recommended for those seeking scholarship consideration or admission to Honors at Houghton.

Application forms are available from the Office of Admission, Houghton College, Houghton, NY 14744. E-mail; Web; phone: 800.777.2556.

Application Deadlines

The Office of Admission responds to applications for admission on a rolling basis. Students applying before December 1st will receive advanced notice of admission and priority consideration for top scholarships.

An accepted applicant is asked to confirm his or her intention to enroll by paying a \$300 enrollment deposit by May 1 or within four weeks of receiving a financial aid award letter, thereby reserving a place in the entering class.

Applications for spring semester admission must be received by December 1.

Application Fee

A \$40 nonrefundable application fee is normally charged on all applications. The application fee will be waived for students who regularly attend a Wesleyan Church or for students who submitted their application by the advertised fee waiver dates.

Music Majors

Music majors must apply separately to, and audition for, The Greatbatch School of Music. Music applications can be obtained from The Greatbatch School of Music or completed online (no additional application fee). Email; phone: 800.777.2556, ext. 4000; [Web site](#).

Honors at Houghton Admission

Upon admission to Houghton, select students will be invited to apply for admission to Honors at Houghton on the basis of their academic profile. The Admission Office will begin the formal invitation process in early November, continuing through early January. Finalists and their parents will be invited to campus for an interview weekend.

Decisions regarding admission to the various tracks will be made upon completion of the final Honors at Houghton interview weekend. Students waitlisted for Honors at Houghton will begin receiving notification of offers of admission into Honors at Houghton beginning after April 1 and pending availability of seats. A student's intended major is not a factor in the selection.

A separate Honors at Houghton interview process exists for transfer students and takes place late in the spring semester.

For further information please contact the Admission Office or click on this link: [Admission Web site](#).

Recommended High School Courses

Houghton regards quality high school achievement as more important than the specific alignment of courses; however, the following are recommended for academic preparation for college:

- English -- 4 years
- Foreign Language -- at least 2 years
- Mathematics -- 3 years
- History or Social Science -- at least 3 years
- Science -- at least 2 years

Entrance Examinations

Applicants must take the Scholastic Assessment Test (SAT I) of the College Entrance Examination Board or the Test Battery of the American College Testing (ACT) in their junior or senior year of high school. SAT subject tests are not required.

When considering the SAT, Houghton College will primarily focus attention on the traditional critical reading and math sections of the exam. Writing section scores will be considered, both for admission and scholarship purposes, but will not carry the same weight as the other two sections. The same is true for the optional ACT Writing Test. The Admission Office has a policy for “super-

scoring” test scores such that an applicant’s best subset scores from multiple tests will be used in admission and scholarship decisions.

Information regarding the SAT may be obtained from [College Board](#). ACT information may be found at [ACT](#).

Houghton’s institution code numbers are: **2299 for SAT; 2766 for ACT**.

International Students

Application requirements for International Students may be found on our [Web site](#) or by contacting the Director of Admission. With the exception of Canadian applicants, all international applicants must submit an affidavit of financial support in order to be considered for admission.

Students from non-English speaking countries must take the Test of English as a Foreign Language (TOEFL), administered by the [Educational Testing Service](#), Princeton, NJ 08540, and see that these scores are forwarded to the college. Students with a paper-based TOEFL score of 550 or higher, an internet-based score of 80 or higher, or a computer-based score of 213 or higher may be offered admission provided that all other factors are acceptable.

High School Equivalency

Under some circumstances, an applicant may be considered for admission on the basis of adequate scores on the New York State High School Equivalency examination or on the USAF high school equivalency test of General Education Development, High School Level. In order to qualify for such consideration, he or she must earn a composite score of 2500 or higher with no individual test score below 450. A student who has completed three years of high school may be accepted and then be eligible for a high school diploma from New York state upon the successful completion of 24 semester hours at Houghton. Students who are considering leaving high school early should consult with the Houghton College admission and student financial services offices. In some situations, students who attend college full-time before completing high school are not eligible for financial aid.

Advanced Placement Tests

Advanced course standing and/or college credit may be granted to students who take the College Entrance Examination Board Advanced Placement (AP) Tests. These are given in May to students who have taken high school courses equivalent to first-year college courses. For the current list of approved tests and applications of credit, please see [Academic Records](#).

Inquiry concerning these tests should be made to the high school guidance office or to [Advanced Placement Program](#), College Entrance Examination Board.

CLEP

College-Level Examination Program (CLEP) tests for advanced placement and/or credit may be taken at Houghton College. Only subject examinations will be accepted from CLEP. Guidelines for the transfer of credit via CLEP can be found at [Guidelines](#).

Students may test for credit by CLEP at the beginning level of a foreign language provided the testing is done prior to the completion of the level 205 foreign language course, and at the intermediate level provided the testing is done prior to the completion of the first advanced course. Standard fees will apply for CLEP tests taken on campus. More information on CLEP exams may be obtained from the Academic Records Office, the Center for Academic Success and Advising Office, or [College Board](#).

Re-admission

Students who have withdrawn from Houghton College and wish to return must re-apply for admission and ensure that the college receives transcripts for any college work taken in the interim. Re-admission is not automatic, but is based on the student's entire academic record, previous Houghton involvement, and other life circumstances since leaving Houghton. The re-application form is accessible on the [admission website](#).

Homeschoolers

Houghton College welcomes applications from homeschooled students. Approximately 40-50 students each year come to the college from a homeschool background.

Houghton does not have a preference for any one curriculum or homeschool approach over another and considers each homeschooled applicant individually and holistically. Homeschoolers who submit work to a distance learning entity (e.g. Christian Liberty Satellite Academy) should have that organization send a transcript. Otherwise, families should provide information regarding academic work and related activities for the 9th-12th grade years. A reading list may also be submitted. The admission page of the [Houghton College Web site](#) features a sample curricular template, and other useful information for homeschool families.

While the Admission Office may admit a homeschooled student regardless of external secondary-completion credentials, eligibility for Federal aid requires certain documentation to be provided. Contact the Office of Admission to discuss these Federal requirements. For New York State students in particular, note the information below.

New York residents wishing to receive state need-based financial aid (NY State TAP) must demonstrate the "Ability to Benefit" (ATB) from higher education. Presently, the SAT and ACT are not acceptable ATB tests. A secondary-education completion credential (such as the Test Assessing Secondary Completion (TASC)) or high school diploma (from a school registered with the state of New York) are acceptable, as are passing scores on one of several basic skills tests. A letter attesting to the substantial equivalency of the student's homeschooled education from a local public high school official will also meet the ATB requirement. The following link provides helpful information regarding [ATB requirements](#) for homeschooled students.

Homeschoolers who have taken college courses should send official transcripts of that work to Houghton.

Part-time Students

Individuals who wish to take a class as a part-time student must complete a special student application form, which can be obtained through the admission office. Similarly, high school students (and homeschoolers) who wish to take a class prior to graduating from high school must complete the high school student application form, which can be obtained through the admission office. Students must have completed their sophomore year in order to take a class at the college. Certain other stipulations and restrictions may apply; please contact the admission office for further details.

Transfer Admission Information

A transfer student is defined as any student who has completed at least one semester enrolled full-time in college coursework post-high school graduation. There may be special considerations for homeschooled students who have enrolled in college coursework as part of their homeschool curriculum and graduation requirements.

Transfer students are welcome at Houghton with preference given to individuals who present a grade-point average of 3.00 or higher. Transfer students are expected to reside initially in college housing unless they are students commuting from home.

Transfer students must submit an official transcript from all colleges attended in addition to a high school transcript and Christian character recommendation. SAT or ACT scores are generally not required for transfers.

Transfer Credit Guidelines

- Transfers must complete at least 30 hours at Houghton and earn at least 50 percent of their major hours in order to graduate with a Houghton College degree.
- Transfer credits are accepted from institutions that are regionally accredited and listed by the U.S. Office of Education in its current Education Directory, Colleges and Universities.
- A maximum of 32 hours of approved advanced placement (AP), CLEP, DSST, and Higher Level International Baccalaureate (IB) will transfer to Houghton.
- Up to 67 credit hours may be transferred for appropriate courses completed with a grade of C- or above from a regionally-accredited community college or a Bible college accredited by the Association for Biblical Higher Education (ABHE).
- The Academic Records Office, in consultation with relevant department chairs, will assess all transfer credits. Except as noted below, credit to meet Houghton requirements is granted on a course-by-course basis when it is reasonably clear that the course being transferred would, if taken at Houghton College, fulfill Houghton College requirements.
- Only grades received at Houghton are used to figure the Houghton College grade point average; accepted hours earned elsewhere, however, will be posted to the Houghton transcript.
- At least 62 credit hours must be taken at Houghton to be eligible for graduation Latin honors (*cum laude*, *magna cum laude*, or *summa cum laude*).

Transfer Students with a Full Year of College Credit

For students who have at least a full year of successful college experience as demonstrated by at least 25 transferable semester credit hours earned *following high school graduation*, a course-by-course assessment will still be done. However, if the year was spent in normal pursuit of a baccalaureate degree at an accredited institution, courses of a general education nature taken in a discipline will count for a Houghton Integrative Studies requirement in that discipline even if the equivalent course taken at Houghton College would not so count. (E.g., courses in World Literature or World Civilization would meet Houghton's requirements for Culture: Literature, or Culture: History.)

Junior Transfers from Four-Year Baccalaureate Institutions

For students who have been enrolled in a baccalaureate degree and have successfully completed 60 or more semester hours of transferable credits, special considerations apply in meeting Houghton's Integrative Studies requirements.

1. Students who have earned at least 40 transferable hours from a single baccalaureate institution may complete either Houghton's foreign language requirement or the foreign language requirement of the institution where the majority of transferable hours have been earned.
2. Students who have earned at least 45 transferable hours in at least seven of the following 10 areas - writing, literature, communication, foreign language, social science, philosophy, fine arts, history, math, and science - need only take Biblical Literature or, if eligible, a 200 level Bible course (excluding BIBL 251 and BIBL 261) *and* Introduction to Christianity to complete their Integrative Studies requirements.

Transfer Agreements with Community Colleges

Houghton College has established formal transfer articulation agreements with community colleges across New York State. These agreements allow graduates who earn an A.A. or A.S. degree to transfer directly to Houghton with junior class standing. In most cases, such students are able to complete their Houghton degree in 2 years of full-time study.

Houghton College has also established a 2+2 degree partnership with Monroe Community College in Rochester, NY. Students who are admitted to the 2+2 dual-admission plan at MCC and meet specified requirements can be accepted to Houghton and assured of successful credit transfer and completion of their Houghton degree in 2 more years (in most cases). The following majors can be completed in the 2+2 program: adolescence education, art, biology, business administration, chemistry, communication, English, history, inclusive childhood education, mathematics, physical/health education, psychology and recreation.

Student Financial Services Information

The goal of the Student Financial Services Office (SFSO) is to assist families through the financial aid process and to help them identify sources of aid so that a Houghton education is affordable. Houghton College distributes aid in compliance with all federal, state, and institutional policies and procedures. All students are urged to consult with the aid counselors about particular situations regarding funding. This is especially true for students considering participation in consortium or study-abroad opportunities.

Student Accounts

The mission of the Student Accounts office is to provide excellent service for our students, parents and colleagues while upholding internal controls that ensure financial transactions are accurately processed and proper records are maintained. The office is responsible for billing and collection of student tuition, fees, and room and board for each semester, as well as the receipt and disbursement of all student financial aid, including processing refunds from financial aid awards.

It is our goal to provide excellent service and support to our student population in a professional manner in order to create a positive environment for our students, parents and colleagues. We hope this information helps give students and parents insight as to the functions of Student Accounts at Houghton College.

Tuition and Fees

- [Traditional Undergraduate Student Tuition and Fees](#)
- [Adult Education Program \(Adult Degree Completion\)](#)

General Information and Policies

- [Housing, Board, Late Fees, and Financial Delinquency](#)
- [Mayterm](#)
- [Payments](#)
- [Off-campus Study Opportunities](#)

Financial Aid

At Houghton, we believe that it's our job to do more than develop the next generation of bright minds and industrious professionals. We develop thoughtful, generous, responsible human beings. People with open minds, deep faith, and compassionate hearts. People who will make an impact on the world, whether that's by going on a mission trip, creating environmentally sound technologies, or simply conducting business with skill and integrity.

We are committed to the needs of our students and their parents, and recognize that college is a significant and personal investment and a major concern for most families. At Houghton College, our financial aid staff understands your concerns, and we do everything we can to make this process as easy as possible.

Our goal is to make an education at Houghton College affordable for all of our students. Although we are not able to meet the full need of every student, by combining the various types of financial aid available, we use every manner possible to coordinate adequate resources to enable you to invest in a higher education at Houghton College.

We hope the information here will help you navigate through the financial aid process and offer valuable resources as you prepare for this important step in your life.

Canadians and internationals may receive institutional aid by completing the appropriate forms.

Canadian Financial Aid Application

Free Application for Federal Student Aid (FAFSA)

Any U.S. student who wishes to be considered for aid funds administered by Houghton College must submit a copy of the FAFSA annually, listing Houghton College (school code: 002734) as a recipient. The FAFSA may be submitted online after January 1 at www.fafsa.ed.gov. Priority consideration is given to students whose applications are received by March 1. **Houghton College aid may not be renewed to returning students applying for it after July 1.**

Houghton College uses the federal methodology formula to determine financial need. The expected family contribution, which is a calculation of the federal methodology formula from the FAFSA data, is subtracted from the cost of attendance to determine need. The SFSO attempts to meet the financial need of each student through various financial aid options.

All grants, scholarships, and federal loans are credited to the student's account each semester. Federal college work-study earnings are paid by check (or direct deposit if requested) to the student on a bi-weekly basis.

Requirements for Financial Aid Consideration

A student must be a matriculated student making satisfactory academic progress to receive financial aid. A matriculated student is one who has met the entrance requirements and is pursuing a degree.

Government Assistance and Loans

Houghton College Scholarships and Grants

All inquiries concerning tuition, fees, scholarships, grants, or loans should be directed to: Student Financial Services Office, Houghton College, One Willard Avenue, Houghton, NY 14744 (phone: 585.567.9328/email: sfso@houghton.edu / web: www.houghton.edu/sfso).

The procedures and policies listed above supersede those published previously and are subject to change at any time.

Houghton College Financial Refund Policy

Refund Policy

Houghton College's refund policy is in accordance with the U.S. Department of Education's regulations. The policy applies to all students who do not complete the enrollment period for which they have been charged.

Houghton College uses student accounts to assess charges and apply payments and credits against those charges. Financial aid payments are applied to student accounts after the close of the add/drop period. If a student's account balance is a credit, it is the policy of the college to refund the credit to the student in a timely manner under most circumstances. Credit balances caused by financial aid are refunded after careful evaluation of the student's account and eligibility for aid. If a credit balance refund is due to the student, the refund is made to the student within 14 days, as required by the federal regulations for Title IV funds. Refunds will typically be issued in the form of a check made payable to the student and mailed to the student's preferred address. The student may also request to pick the check up on campus at the Student Financial Services Office.

If the student wishes to keep the credit balance on their student account, the Student Financial Services Office must have a written and signed request from the student, as required by the federal regulations for Title IV funds.

The term "Title IV Funds" refers to the Federal financial aid programs authorized under the Higher Education Act of 1965 (as amended) and includes the following programs: Federal Direct loans, Federal PLUS loans, Federal Perkins loans, Federal Pell Grants, and Federal SEOG.

Eligibility for refund is dependent on a number of factors and will be determined by the Student Financial Services Office.

In the case of course cancellation by the institution, credit equal to 100% of tuition and fees will be given. Students suspended for academic or disciplinary reasons will not be entitled to a refund of tuition, fees, or housing.

A credit balance on student accounts as a result of withdrawal will be refunded in a minimum of two weeks after the student has officially withdrawn through the Academic Records Office.

Change in Enrollment Status

If a student changes enrollment status after they have received a refund based on financial aid, they may be required to repay all or part of the aid received to Houghton College or to the appropriate federal or state aid programs. Students receiving federal aid who change enrollment status or withdraw from the college will have federal aid adjusted in accordance with formulas prescribed by the Federal Title IV Program.

A student who withdraws from Houghton College receives only the balance that remains on their account after the appropriate refund calculations have been made by the Student Financial Services Office in accordance with the Return of Federal Title IV Funds Policy below.

A student’s withdrawal date is the date the student began the institution’s withdrawal process or officially notified the institution of intent to withdraw; or the midpoint of the period for a student who leaves without notifying the institution. The refund charts for our semester and modular programs are below.*

If a student stops attending classes and begins the withdrawal process but remains on campus utilizing their room and/or board for an additional amount of time, separate dates will be used to calculate room and board refunds. Students withdrawing before the classes begin for a given term will receive a 100 percent refund of charges. A copy of the worksheet used for the refund calculation can be requested from the Student Financial Services Office.

Students who are granted a medical withdrawal receive a refund of charges prorated on a per diem basis up to the 100 percent point in the semester. The Office of Student Life must approve a medical withdrawal. Students who are granted a leave of absence are treated in the same manner as students who withdraw from the college.

Fall/Spring Tuition, Room and Meal Plan Refund:

Days 1 and 2	100%
Days 3 through 7	90%
Week 2	75%
Week 3	50%
Week 4	25%
Week 5 and after	0%

Refund 8 Week Modules:

First Two Days	100%
Remainder of First Week	75%
Second Week	50%
Third Week and Beyond	0%

Return of Federal Title IV Funds Policy

Title IV aid and all other aid is earned in a prorated manner on a per diem basis based on the academic calendar up to the 60 percent point in the semester. Title IV aid and all other aid is viewed as 100 percent earned after that point in time.

In accordance with federal regulations, when financial aid is involved, refunds are allocated in the following order: Federal Direct Unsubsidized loans, Federal Direct Subsidized loans, Federal Perkins loans, Federal PLUS loans, Federal Pell Grants, Federal SEOG, other Title IV assistance, other Federal sources of aid, other state, private and institutional aid, and lastly, the student.

The following outlines the policy in greater detail.

Funds Returned

Houghton College returns unearned funds received from Federal student assistance programs to the proper program accounts or lenders in accordance with Federal Title IV student assistance regulations, as amended, under 34-CFR, section 668.22(d) of the Reauthorization of the Higher Education Act of 1965.

A student receiving aid from Federal Title IV programs is required to complete a minimum number of hours for which aid was received. If a student completely withdraws from school during the semester, or stops attending but fails to officially withdraw, the student may be required to return the unearned part of the funds received to help pay educational expenses for the semester. Liability for return of Federal Title IV funds will be determined in accordance with the following guidelines: If a student remains enrolled and attends class beyond the 60 percent mark of the semester in which aid is received, all federal aid is considered earned and not subject to this policy.

- If a student remains enrolled and attends class beyond the 60 percent mark of the semester in which aid is received, all federal aid is considered earned and not subject to this policy.

- If a student completes the institution's withdrawal process before the 60 percent mark of the semester, a pro-rated portion of the federal aid received must be returned to the federal aid programs equal to the percentage of the semester remaining.
- If a student fails to complete the institution's withdrawal process but stops attending classes, a pro-rated portion of the federal aid received, based on the last documented date of attendance, must be returned to the federal aid programs. If the institution is not able to document the last date of attendance, one-half of all federal aid received during the semester must be returned to the federal aid programs.

Return of Federal Title IV funds will be distributed according to statutory regulations.

Worksheets/Formulas provided by the U.S. Department of Education will be used to determine the amounts and order of return. If a student's share of the return amount exists, the student will be notified and allowed 45 days from the date of determination to return the funds to the Student Financial Services Office of the institution for deposit into the federal programs accounts. If the student fails to return the amount owed with the 45 day period, the amount of overpayment will be reported to the U.S. Department of Education (DOE) via the National Student Loan Database (NSLDS) and the student will be referred to the DOE for resolution of the debt. When necessary, unearned aid will be refunded to the appropriate programs based on these regulations.

Funds Disbursed

When a student officially or unofficially withdraws, the Student Financial Services Office will determine if the student is entitled to a post-withdrawal disbursement. Post-withdrawal disbursement occurs when the student receives less federal student aid than the amount earned (based on the withdrawal date). Houghton College will then offer a disbursement of the earned aid that was not received. All post-withdrawal disbursement offers will be made within 14 days of the date Houghton College determined that the student withdrew.

**** The fees, procedures, and policies listed above supersede those published previously and are subject to change at any time ****

Satisfactory Academic Progress requirements for federal and institutional financial aid

According to Title IV financial aid regulations, students must make satisfactory progress toward a degree in order to remain eligible to receive financial aid. Satisfactory academic progress includes both a qualitative (grade-point average) and quantitative (number of credit hours completed) measure of the student's progress. For a four-year (eight-semester) bachelor's degree, there is a 12-semester maximum for the receipt of federal aid. (150% rule)

Students who fail to make satisfactory academic progress will be subject to the following:

Financial aid warning

The first time that a student fails to meet the satisfactory academic progress requirements, he or she will be sent a financial aid warning letter which will indicate that the student is in danger of losing aid eligibility unless he or she improves his or her academic record. A student on financial aid warning may continue to receive financial aid for the next payment period.

Financial aid probation

The second time that a student fails to meet the satisfactory academic progress requirements; he or she will lose eligibility for financial aid. However, the student may petition the Committee on Satisfactory Academic Progress to request a one-time waiver of the necessary academic requirements. Petitions will be considered when accompanied by written evidence of injury or illness, significant personal difficulty, family trauma or other special circumstances. This appeal must also include an academic plan for successfully meeting the satisfactory academic progress requirements. If the student is approved for this one-time waiver, he or she will be considered to be on financial aid probation and will be eligible to receive financial aid for the next payment period. Students can appeal the 150% rule due to extenuating circumstances such as illness, full-time employment, significant personal difficulty, family trauma, or other special circumstances. This applies to all students (including Adult Ed) and the appeal process is the same as above.

Unsatisfactory academic progress

If a student's appeal is denied by the Committee on Satisfactory Academic Progress or if the student fails to meet the requirements after being on financial aid probation, then the student is no longer eligible to receive federal and institutional financial aid. Aid eligibility may be reinstated in the future if the student successfully attains the necessary satisfactory academic progress requirements.

Transfer of credits from other schools

When a student (including Adult Ed) transfers courses to Houghton from another college, the transfer credit assessor or academic dean's office will determine the number of credit hours acceptable toward a Houghton degree. The number of credit hours accepted will be counted as both hours attempted and hours completed. Grades from the other college will not be considered in the GPA calculation.

Change of Major

In the event of a change of major, the hours and grades earned in the first major are considered in making satisfactory academic progress determinations.

Repeating of courses

Students have the option of repeating courses in which they earned D+ or lower. In such cases, the higher grade will count in GPA calculations, but the course credit hours earned will count only once. Both courses and both grades remain on the transcript with an indication of which course is counted. A student may only repeat a previously passed course once. Failed courses may be repeated until successfully passed. Students needing to repeat a course more than twice should consult with the Student Financial Services Office. Repeating a course may influence a student's financial aid or athletic or other co-curricular eligibility.

Withdrawals and incomplete courses

Courses from which a student withdraws may have an impact on GPA, depending on the date of withdrawal. The credit hours of the course count toward hours attempted for satisfactory academic progress purposes (even if they do not count in GPA calculations). Any incomplete courses are counted in hours attempted. When the "I" is changed to an actual grade, the course will be considered complete and the GPA reviewed for satisfactory academic progress purposes.

Satisfactory Academic Progress Chart for Federal and Houghton College Financial Aid

Semesters	Min. credit hrs. enrolled	Credit hrs. that must be completed	Min. accrued credit hrs.	Cum grade point average
1	12	6	6	1.1
2	12	6	15	1.5
3	12	9	27	1.75
4	12	9	39	2.0
5	12	12	51	2.0
6	12	12	63	2.0
7	12	12	78	2.0

8	12	12	93	2.0
9	12	12	108	2.0
10	12	12	125	2.0

Students must successfully complete the following percentages of all cumulative credits attempted.

First year	55%
Second year	60%
Third year	65%
Fourth year	70%
Fifth year	70%
Sixth year	80%

Satisfactory Academic Progress requirements for the New York State Tuition Assistance Program (TAP)

New York State uses a different satisfactory academic progress standard than the federal Title IV requirements. All satisfactory academic progress policies mentioned above apply to state aid except for the differences described below:

Transfers: Transfer students and students who return after an absence of at least one year are considered to be making satisfactory academic progress by their admission acceptance. The assessment and information concerning the number of semesters the student previously received aid will be used to place the student at the appropriate point on the academic progress chart. Placement may be either in accord with the number of payments received or the number of credit hours earned whichever is more beneficial to the student.

Waiver: Students who are not meeting the New York State satisfactory academic progress requirements may apply for a one-time waiver as described in the financial aid probation section listed above. If a waiver is granted, the student will be given the next term before advancing to the next level on the chart.

New York State Satisfactory Academic Progress Chart

For TAP and other state awards, students must meet the following requirements:

Semesters	Min. credit hrs. enrolled	Cum. Grade-point average
1	12	1.5
2	12	1.8
3	12	1.8
4	12	2.0
5	12	2.0
6	12	2.0
7	12	2.0
8	12	2.0
9	12	2.0

Academic Information

General Information

Academic Vice President and Dean of the College

The dean is the chief academic officer at Houghton. Questions concerning academic policy should be directed to the dean of the college. The office is located on the main floor of Luckey Building.

Area Associate Dean

The area associate deans provide leadership in advising, assessment and evaluation, budgetary and curricular matters, as well as research; enable and promote collaboration across disciplines; coordinate faculty hiring and programs within the area; represent the area to all constituencies and works with Advancement to promote the area departments.

Academic Records (Registrar)

The director of academic records answers questions concerning records, schedules, transfers, transcripts, etc. The Academic Records Office is located on the second floor of Luckey Building.

Department Chairs

The college academic structure is organized into 17 departments: Art; Biblical Studies, Theology, and Philosophy; Biology; Business and Economics; Chemistry; Communication; Education; English and Writing; History and Political Science; Intercultural Studies; Sport, Recreation, & Wellness; Mathematics; the Greatbatch School of Music; Physical and Health Education; Physics, Computer Science, and Engineering; Psychology and Sociology; and World Languages and Literatures. The chair of each department is available to students for counseling and advising.

Faculty

The faculty of the institution includes all full-time teaching faculty, individuals classified as non-teaching faculty by the administration (such as professional library personnel, some administrators in student life, and administrators on the President's staff). Other categories of faculty include: part-time, lecturers, adjunct, and interim.

Degrees Offered

Houghton College offers courses of study leading to the degrees of master of arts in music (MA), master of music (MMus), bachelor of arts (BA), bachelor of business administration (BBA), bachelor of fine arts (BFA), bachelor of science (BS), bachelor of music (BMus), an associate of arts degree (AA), and an associate in applied science degree (AAS).

Courses of Instruction

Course Numbering System

- **100 level courses:**
 1. typically taken the freshman year
 2. do not typically give major or minor credit
- **200-399 level courses**
 1. typically taken the sophomore or junior year
 2. major credit requires course to be at this level or higher
 3. foundational courses for majors and minors
 4. courses that build upon one or more foundational courses in the same discipline or represent advanced integrative studies
- **400 level courses**
 1. typically taken late in the curriculum
 2. build upon two or more lower numbered courses in the same discipline
 3. class size is generally smaller
 4. pedagogy is seminar style, discussion-oriented, or collaborative style
- **500 level courses**
 1. 500 level courses are reserved for graduate level studies

Course Description Codes

Code	Explanation
4	Number of credit hours for the course (variable: 1, 2, 3, 4,)
4/4	Credit hours for a two-semester sequence

F	Course offered in fall
S	Course offered in spring
F&S	Course offered in fall and spring
May	Course offered in Mayterm
Summer	Course offered in a summer session
WSP	Course offered when schedule permits
F15	Course offered in fall, odd-numbered years
F16	Course offered in fall, even-numbered years
S16	Course offered in spring, even-numbered years

S17	Course offered in spring, odd-numbered years
F/S	Course offered in two-semester sequence
F/S15-16	Two-semester sequence, offered alternate years

Note: The courses listed and their descriptions are subject to change. Adjustments in teaching assignments and normal academic flexibility may modify the material in this catalog.

Elective courses for which demand is insufficient may be cancelled at the discretion of the dean of the college. For a definitive listing of course offerings and times, consult the appropriate course offerings for each semester or special session, as published on the [Academic Records Office](#) website.

Course Prefixes, Areas of Study, and Host Departments

Department	Prefix	Description
Department of Art	ART	art

Department of Biblical Studies, Theology and Philosophy	BIBL	Bible
	CHMN	Christian ministries
	CRFM	Christian formation
	GREK	Greek
	HEBR	Hebrew
	MIN	ministry
	PHIL	philosophy
	REL	religion

	THEL	theology
	URMN	urban ministry
Department of Biology	BIOL	biology
	BIOCHM	biochemistry
Department of Business and Economics	ACCT	accounting
	BADM	business administration
	ECON	economics
Department of Chemistry	BIOCHM	biochemistry

	CHEM	chemistry
Department of Communication	COMM	communication
Department of Education	EDUC	education
Department of English and Writing	ENGL	English and literature
	WRIT	writing
Department of History and Political Science	HIST	history
	POLS	political science
Department of Intercultural Studies	ANTH	anthropology

	IDEV	international development
	INCL	intercultural studies
	LING	linguistics
	MISS	missions
Department of Mathematics and Computer Science	CSCI	computer science
	MATH	mathematics
Greatbatch School of Music (<i>See Graduate Bulletin for information regarding master's degree programs in music..</i>)	GMUS	graduate music
	MBCM	commercial music

	MCHU	church music
	MED	music education
	MHS	music history
	MLT	music literature
	MTH	theory and composition
	MUS	ensembles; instrumental and piano classes; private lessons (Each instrument has its own code - see separate listing).
Department of Sport, Recreation & Wellness (formerly Leisure Studies)	EQST	equestrian studies
	REC	recreation

Department of Physical and Health Education	PHED	physical education
Department of Physics and Earth Science	ESCI	earth science
	PHYS	physics
Department of Psychology and Sociology	ANTH	anthropology
	PSY	psychology
	SOC	sociology
Department of World Languages and Literatures	FREN	French
	GERM	German

	SPAN	Spanish
Interdisciplinary/Special Studies	CLLS	college life and leadership studies
	HUM	humanities
	INDS	interdisciplinary studies
	INTS	integrative studies
Adult Learning Opportunities	AC	accounting
	BI	Bible
	BU	business

	CM	communication
	ID	interdisciplinary
	PH	philosophy
	PY	psychology
	SO	sociology
	ST	statistics
	TH	theology

Academic Note:

A student's courses normally fall into four or five categories:

1. integrative studies (general studies)
2. pre/co-requisites or additional requirements
3. academic major
4. electives
5. *concentrations may be required for some majors*

When necessary a student should ask his or her academic advisor about individual program expectations.

Policies

Graduate Transfer Student Admission and Transfer Credit Guidelines

Students looking to transfer into a graduate program, should contact the Greatbatch School of Music for more information.

Undergraduate Transfer Student Admission

Transfer students are welcome at Houghton. Preference is given to individuals who present a grade-point average of 3.00 or higher. Transfer students are expected to initially reside in college housing, unless they are commuting from home.

Transfer students must submit: an official transcript from all colleges attended, their official high school transcript, and Christian character recommendations. Undergraduate Transfer Credit Guidelines

- Transfers must complete at least 30 hours at Houghton and earn at least 50 percent of their major hours at Houghton
- Transfer credits are accepted from institutions that are regionally accredited and listed by the U.S. Office of Education in its current Education Directory of Colleges and Universities.
- A maximum of 32 hours of approved advanced placement (AP), CLEP, DSST, and Higher Level International Baccalaureate (IB) will transfer to Houghton.
- Up to 67 credit hours may be transferred for appropriate courses completed with a grade of C- or above from a regionally-accredited community college or a Bible college accredited by the Association for Biblical Higher Education (ABHE).
- The Academic Records Office, in consultation with relevant department chairs, will assess all transfer credits. Except as noted below, credit to meet Houghton requirements is granted on a course-by-course basis when it is reasonably clear that the course being transferred would, if taken at Houghton College, fulfill Houghton College requirements.
- Only grades received at Houghton are used to figure the Houghton College grade point average (gpa); accepted hours earned elsewhere, however, will be posted to the Houghton transcript.

- At least 62 credit hours must be taken at Houghton to be eligible for graduation Latin honors (*cum laude*, *magna*, or *summa cum laude*).

Undergraduate Transfer Students with a Full Year of College Credit

For students who have at least a full year of successful college experience as demonstrated by at least 25 transferable semester credit hours earned *following high school graduation*, a course-by-course assessment will be done. However, if the year was spent in normal pursuit of a baccalaureate degree in an accredited baccalaureate institution, courses of a general education nature taken in a discipline will count for a Houghton Integrative Studies requirement in that discipline even if the equivalent course taken at Houghton College would not so count. (E.g., courses in World Literature or World Civilization would meet Houghton's requirements for Culture: Literature, or Culture: History.)

Junior Transfers from Four-Year Baccalaureate Institutions

For students who have been enrolled in a baccalaureate degree in an accredited baccalaureate institution and have successfully completed 60 or more semester hours of transferable credits, special considerations apply in meeting Houghton's Integrative Studies requirements.

1. Students who have earned at least 40 transferable hours from a single baccalaureate institution may complete either Houghton's foreign language requirement or the foreign language requirement of the institution where the majority of transferable hours have been earned.
2. Students who have earned at least 45 transferable hours in at least seven of the following 10 areas: writing, literature, communication, foreign language, social science, philosophy, fine arts, history, math, and science - need only take Biblical Literature or, if eligible, a 200 level Bible course (excluding BIBL 251 and BIBL 261) *and* Introduction to Christianity to complete their Integrative Studies requirements.

Students with an Associate Degree

Transfer students who have earned an associate in arts (A.A.) or associate in science (A.S.) degree from a regionally -accredited college may enter as juniors. Such students must take Biblical Literature or, if eligible, a 200 level Bible course (excluding BIBL 251 and BIBL 261) *and* Introduction to Christianity to complete their Integrative Studies requirements. This policy does not apply to students who have attended Houghton previously. Transfer students who have earned an associate in applied science (A.A.S.) degree from a regionally-accredited college may enter as juniors, but their integrative studies (general education) credits will be evaluated on a case by case basis.

Transfer Agreements with Community Colleges

Houghton College has established formal transfer articulation agreements with community colleges across New York State. These agreements allow graduates who earn an A.A. or A.S. degree to transfer directly to Houghton with junior class standing. Depending upon the major, such students are able to complete their Houghton degree in 2 years of full-time study.

Houghton College has also established a 2+2 degree partnership with Monroe Community College in Rochester, NY. Students who are admitted to the 2+2 dual-admission plan at MCC and meet specified requirements can be accepted to Houghton, assured of successful credit transfer, and assured guidance in completion of their Houghton degree in a reasonable length of time. .). The following academic majors are available in the 2+2 plan: adolescence education, art, biology, business administration, chemistry, communication, English, history, inclusive childhood education, mathematics, physical/health education, psychology and recreation.

Religious Observances

In compliance with New York's Hevesi-Levy Act, Houghton College will accommodate any of its matriculated students who are unable to register for classes, take an exam, or attend a class because of religious beliefs (taken to mean the doctrinal beliefs of religious organizations which qualify as tax-exempt corporations under federal law).

Undergraduate Semester Schedule Load-Limit Policy

The flat-rate tuition plan at Houghton allows students to take 12 to 18 credits per semester. A typical student's course load is 15 or 16 semester hours. However, some special limitations and conditions apply:

1. A student admitted under "**light-load**" provision is not permitted to take more than 14 credit hours. (Note: Highlander Adventure [2 credits] will appear on the fall transcript but does not count against load limits.)
2. A student on **academic probation** is not permitted to take more than 15 hours. Any other student in good standing may take up to 17 hours. However, a student on **academic guidance** who wishes to take 16 or 17 hours must have the explicit approval of their advisor.
3. To take 18 credit hours, a student must have the specific permission of his or her advisor recorded on a form in the Academic Records Office.
4. To take 19 credit hours, a student must petition the academic petitions committee for permission to do so. This academic petition requires the approval of the advisor.
5. Special circumstances may be addressed through academic petition. (Academic petition blanks and load-limit forms are available in the Academic Records Office and on the Academic Records website.)

Once a student selects courses for the semester, it is expected to be permanent. In the event that a student needs to add or drop a course, the student should send a single email addressed to all applicable professors, his/her academic advisor, and Academic Records (academicrecords@houghton.edu). Included in the email should be: the student's name, added

courses, dropped/withdrawn courses, and a summary of their involvement with intercollegiate athletics. The academic advisor and applicable professors **MUST** reply to Academic Records with permission to add/drop/withdraw from the course. The Students schedule will be changed once all confirmations are received.

Drop/Add Permission

Courses (including independent studies and tutorials) may not be added for credit after the first academic week. Courses from which a student withdraws during the second through the tenth weeks will be recorded with a grade of “W”. Courses discontinued within the last four weeks of the semester are assigned a grade of “F”. Half semester courses do have different dates for adding, dropping and withdrawing. Check the calendar of Important Dates on the Academic Records Office website for an accurate listing of dates. **Students are not officially withdrawn from a course until all of the relevant emails concerning the drop or withdrawal /change of schedule have been received by the Academic Records Office.** (See Mayterm policy for additional important information.)

Classroom Attendance

Students are expected to attend classes. Each instructor will state expectations in the course syllabus, which is to be distributed at the start of each semester.

Policy on awarding credit hours through coursework

Academic credit is granted by Houghton College through coursework when a student is assessed by the instructor of record as having performed academically at a passing level in the course. Performance evaluation is guided by the grading policies of the College, and when **one** of the following can also be documented:

1. For **each credit hour**, the student receives *at least* 15 hours (each defined as 50 minutes) of instruction. For this purpose, instruction is defined as including live or pre-recorded lectures/presentations, and all directly synchronously supervised or observed time on task(whether face to face or at a distance). For **each credit hour**, the student also completes course-related work outside of instructional time which requires *at least* 30 hours of time on task for a typical student.
2. For **each credit hour**, the student is expected to complete independent course-related work which requires *at least* 45 hours of time on task (as defined above).
3. For **each credit hour**, the student is expected to complete course-related work and receives instruction (each as defined above) in any combination that sums to *at least* 45 hours.

Minimum expectations for time on task for various common learning activities, which have been determined through a synthesis of existing research and a review of policies at other institutions, include:

Learning activity	Additional comments	Typical <i>minimum</i> time on task
Assigned reading	Reading rate for learning	3 minutes per page (approx. 100 words per minute)
Journal/personal and science lab report writing		0.5 hours per each page of writing (approximately 250 words)
Participation in online dialogue(s)	Asynchronous via text, audio and/or video (Synchronous time would be counted as instructional)	1 hour for 5 postings (original or in response to other posters), each of which consists of at least 5 sentences or 30 seconds of recorded material
Researched paper or presentation (live or recorded, individual or group): research component	Supervised time is counted as instructional	1.5 hours per finished page or per 30 seconds of live/recorded presentation
Researched paper: writing/editing component	Supervised time is counted as instructional	1.5 hours per finished page
Researched presentation (live or recorded, individual or group): preparation component	Script-writing, PowerPoint creation, audio/video recording, editing, and related tasks	2 hours per 30 seconds of live/recorded presentation
Subject-specific learning activities that clearly fall outside the categories above	See paragraph below	Designated in syllabi, based on disciplinary standards and departmental/area agreement

For a number of learning activities, such as audio or video listening/viewing or conversational practice for language acquisition, time on task is set by the length of the assigned material itself. For active learning situations such as field experiences and internships, unsupervised time on task is normally dictated by the particular context, and must be documented in syllabi. *Moreover, because specific assignments involving research, writing, creative production, or skill development may vary significantly depending on subject matter and level of difficulty, instructors may also provide charts similar to the one above in individual syllabi designating the expected time on task for each assignment.* Any such designation should demonstrate conformity to accepted practice in the particular field of study and should also be consistently applied within the department or academic area. For example, for individual studio instruction in music at Houghton College, hours of academic credit are granted according to the following formulas (based on National Association of Schools of Music norms):

Credit hours	Individual studio instruction hours	Student practice hours outside of lesson time
1	7	42
2	7	84
3	14	126
4	14	168
5	21	210

Audit

Courses may be audited with permission from the professor. This involves enrolling in and attending the course, but receiving neither grade nor academic credit. Charges vary according to the type of course being audited and the rest of the student's load. The full policy can be found at the Academic Records Office.

Dual-counting

Dual-counting addresses the situation in which a single course satisfies requirements in more than one major or minor subject.

Undergraduate: A student must have a minimum of 24 distinct credits in each major and a minimum of 12 distinct credits in each minor. Credits beyond these minimum distinct credits may be dual-counted as permitted by individual major/minor requirements. That is, a course that meets requirements for both a major and a minor (or two majors, etc.) may be used toward both if such a course is beyond the minimum 24/12 distinct hours for the major/minor. This policy also applies to courses that are cross-listed, (identified by more than one prefix) as long as the course-level requirements for those cross-listed courses are the same. Courses that are not the same should be identified by different numbers as well as different prefixes. The restrictions on dual-counting described above do not apply to courses that fulfill both integrative studies requirements and the requirements of a major or minor. Integrative studies courses may be counted toward a major or minor subject without limitation. *Neither do the restrictions on dual-counting apply to concentrations associated with the Inclusive Childhood Education major.*

Graduate: At the graduate level, a student must have a minimum of 12 distinct credits in each major area. Credits in a major area beyond these minimum distinct credits may be dual-counted as an elective.

Final Exam Policy

If a student believes the scheduling of too many exams in one day poses a problem, she or he may appeal to the area associate dean. Written (email is acceptable) approval by the faculty member who is being asked to move an exam should be forwarded to the area associate dean.

Grading System

A literal system is used in the grading of college course work as follows:

Grade	Quality points	Quality points	Quality points
A = Excellent		A = 4.00	A- = 3.67
B = Good	B+ = 3.33	B = 3.00	B- = 2.67
C = Average	C+ = 2.33	C = 2.00	C- = 1.67
D = Passing	D+ = 1.33	D = 1.00	D- = 0.67
F = Below minimum standards		F = 0	

- **W-Withdrawn.** A grade applicable to a withdrawn course from the second through the tenth week of classes.
- **I-Incomplete.** A temporary grade limited to a course in which a student has been excused for illness or given an extension for another significant reason. An incomplete grade is to be made up within five weeks of the close of the semester (the last day of final exams). At the 5 week mark, the professor will submit a grade based on work completed by that time. Incomplete forms must be obtained from the Academic Records Office' website.

- **P-Satisfactory work done (equivalent to a regular grade of D or above).** Gives semester hours but no quality points.
- **S-Satisfactory work done (equivalent to a regular grade of C- or above).** Gives semester hours but no quality points.
- **U-Unsatisfactory work.** Credit is not earned from the course and does not figure in the overall quality point average.
- **M-No grade assigned.** May be used at mid-semester when a class has not commenced, or for student teachers, or when special permission is granted by the Academic Records Office. It can never be used at the end of a semester or a summer session.
- **NR-Not Recorded grade.** Used only for courses extending beyond one semester.

Midterm grade policy: Midterm grades are provided for all first-year students and any upper class student who has a C- or lower.

Satisfactory/D/Fail Coursework

In order to encourage students to sample challenging and unfamiliar coursework they might otherwise avoid, full-time juniors and seniors in good standing with the college may take up to four hours per semester, but no more than 12 hours cumulatively, of Satisfactory/D/Fail coursework. Work equivalent to a letter grade of C- or better is required in order to earn "Satisfactory". When a student is taking the course for S/D/F, Ds and Fs are included in the grade point average, but grades of an "S" are not. In order to take a course S/D/F, students must be carrying at least 12 hours of standard, graded coursework during the same semester. Faculty members will not be made aware of whether any students in the course are taking it S/D/F and will report all grades for the course as regular letter grades. Because the S/D/F option is intended to encourage student exploration of electives, it may not be used for courses meeting requirements in a student's major, minor, or concentration, or for their pre- and co-requisites, or for Integrative Studies requirements.

Grade Grievance Procedure

The college has approved a formal procedure for resolving those occasions when a student actively disagrees with the grade received in a course. The steps are:

1. Within the first two weeks of the subsequent semester, the student will meet with the instructor. If a grade inaccuracy is determined, the instructor will process a grade change request.
2. If agreement cannot be reached, the student may contact the instructor's department chair, in writing, within ten working days after the meeting with the instructor. If agreement is reached, a grade change request is processed. If there is no agreement, or if the instructor is also the department chair, go to the next step.
3. The student may appeal the decision to the Center for Academic Success and Advising (CASA), in writing, again within 10 working days of the previous step. The Director of CASA shall investigate carefully and render a decision, which shall be final. If the decision is to reconsider the grade:

- The Director of CASA shall, within 10 days, form a panel of uninvolved, tenured faculty from the instructor's department. (From a designated pool, the Director of CASA, the instructor, and the student will each select one member of the panel.)
- The panel, within 30 days, will review all appropriate material and determine the final grade. The panel may retain the original grade or assign a new grade (which may be higher or lower than the grade in question), and it will so inform the Academic Records Office.

Quality Point Average (also known as Grade Point Average)

To derive a scholastic average for all of a student's courses each semester, letter grades are assigned numerical equivalents (as shown above) then multiplied by the credit hours for the course. The quality point equivalents grade point for all courses taken are totaled, and then divided by the total number of letter grade hours carried. (see example below)

Course	Credit Hours	Grade in Course	Quality Point Value	Quality Points
Biblical Literature	4	C	2.00	8.00
Western Civilization	2	B	3.00	6.00
Intro to Calculus	4	D+	1.33	5.32
Intro to Psychology	4	B+	3.33	13.32
Spanish Level 2	4	A-	3.67	14.68
Totals	18			47.32

QPA = 47.32 divided by 18 = 2.682				
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Courses taken off-campus under Houghton College affiliated opportunities (see special studies section) are considered to be work taken at Houghton College and grades will be recorded. For all other satisfactory off-campus course-work, regular letter grades are not recorded on the transcript.

Repeating a Course

Students have the option of repeating courses in which they received D+ or lower. In such cases, the higher grade will count in GPA calculations, but the course credit hours earned will count only once. Both courses and both grades remain on the transcript with an indication of which course is counted. A student may only repeat a previously passed course once. Failed courses may be repeated until successfully passed. Students needing to repeat a course more than twice should consult with the Student Financial Services Office. Repeating a course (any number of times) may influence a student's financial aid, or athletic or other co-curricular eligibility.

Eligibility for Participation

Being in good standing with the college is a prerequisite for participating in college activities, whether for curricular or co-curricular purposes, including but not limited to:

- intercollegiate athletics;*
- leadership roles in the Student Government Association;
- leadership in clubs and other student organizations;
- any study for academic credit that is not on Houghton's main campus (e.g., off-campus programs)
- opera and musical theater production performances or production staff;
- dramatic productions performances or production staff, whether curricular or student-led;

- touring with music ensembles.

Students in good standing will have passed 24 credit hours over the last two semesters with equivalent conversion of quarter hours into semester hours if necessary) of school (including Mayterm and summer work following those semesters) with a cumulative gpa of 2.0, must be regularly attending classes, and must not be on disciplinary probation nor have unaddressed chapel attendance deficiencies.

Transfer students in their first semester at Houghton will be eligible if they were academically and athletically eligible at the previous institution (had they remained there), have a cumulative 2.0 gpa based upon their previous work, and are enrolled in at least 12 hours for the first semester.

Transfer students entering their second semester at Houghton will continue to be eligible if they have at least a cumulative 2.0 gpa (at Houghton); are not on disciplinary probation, have no unaddressed chapel attendance deficiencies; and passed either a.) at least 12 hours in the first semester at HC, or b.) sufficient hours during the first semester at HC to meet the 24 hour rule.

Transfer students heading into subsequent semesters will continue to be eligible if they have a cumulative gpa of 2.0 (at Houghton); have passed at least 24 hours in the last two semester (including Mayterm and summer work following those semesters) are not on disciplinary probation; and have no unaddressed chapel attendance deficiencies.

Notes: *There are eligibility requirements for intercollegiate athletes governed by an external intercollegiate association that are not addressed here. In addition, this policy does not apply to intramural sports participation (see the *Student Handbook* for further detailed information on both intercollegiate and intramural participation). Other notes: This policy applies to full-time (minimum of twelve hours) not part-time students. Student membership, as compared to leadership, in other student clubs is exempted from this policy except as outlined in the bullets above. Some campus leadership positions require a higher cumulative quality point average than 2.0, and a student's eligibility should be reviewed prior to elections for these leadership positions or other participation. Music majors participating in curricular music major ensemble performances on the College's main campus are exempted from this policy. Eligibility lists for continued participation in college activities are reviewed by the Academic Records Office and by appropriate college officials at the end of each semester. Exceptions to this policy may be considered by petition to the academic or co-curricular administrator in the relevant area.

Academic Honesty

Honesty is the foundation on which all intellectual endeavors rest. To use the ideas of others without acknowledging the authors of those ideas belies the nature and purpose of academic life. At Houghton, where we strive to live out Christian calling and commitment, personal integrity, including academic honesty, should be the hallmark of all of our work and relationships.

Students are expected to exhibit extreme care relative to personal honesty in all academic work, including in-class and out-of-class learning experiences, such as exams, quizzes, journals, papers, research projects, etc. Dishonest work includes but is not limited to the following:

1. obtaining aid or information without giving due recognition to the sources from which the aid or information was obtained. Such dishonesty encompasses 1) asking to copy or copying other students' work to claim as one's own on an exam or assignment of any kind and 2) all forms of plagiarism. Plagiarism includes using ideas, words, or phrases from any source without citing that source, and downloading or purchasing papers or parts of papers from others or the World Wide Web and claiming such work as one's own.
2. giving aid or information when it is clearly inappropriate to do so, such as providing answers for an exam or writing a portion of a paper or an entire paper for someone, including the selling of one's work.

Faculty members are required to report all offenses to the Director of CASA who will ensure that an appropriate record is kept. Students found guilty of intentional dishonesty will automatically receive a failing grade for that work. Instructors may require that such work be redone to their satisfaction as a requirement for passing the course. Nothing higher than the failing grade, however, can figure into the calculation of the final grade. Student questions about appropriate collaboration on specific assignments should be addressed to the faculty member.

At the discretion of the Director of CASA, repeated offenses may result in failure of the course or dismissal from the college. If a student is already on disciplinary probation, any offense may result in suspension or dismissal by the dean of student life. Unauthorized use of college computing equipment, facilities, or computer software may also be considered grounds for disciplinary probation, suspension, or dismissal from the college.

Academic Advising

Effective student advising contributes to a productive and successful college experience. Advising includes a variety of tasks: course selection, choice of major and minor, monitoring student progress, referring students to support services, and helping students connect their studies to potential career choices. In all of these ways advising complements teaching, but advising can be more. At its best advising is a dynamic relationship between student and professor that encourages students to cultivate thinking skills associated with the liberal arts, and to explore a student's abilities and interests in light of Christian faith and God's calling in their lives.

All entering students are assigned a faculty advisor. When students have a strong interest in an academic major, every effort is made to provide an advisor whose area of expertise matches the students' interest. Students are encouraged to consult with their academic advisor at least once each semester and at any time they have questions that the advisor can address or provide appropriate resources. When a student selects a new major, the department chair will assign an appropriate advisor. To select courses, students must obtain their academic advisor's approval. Although advisors provide guidance, it is the student's responsibility to understand academic policies and complete all requirements for a degree. Contact the Academic Records Office or CASA with any questions.

Undergraduate Classification

To receive classification as a sophomore, the student must earn a minimum of 28 semester hours of accumulated credits; a minimum of 60 hours to be considered a junior; a minimum of 90 hours to be considered a senior. The student must also have maintained a quality point average of 2.0 for unconditional classification in any class.

Academic Guidance & Probation

Each incoming undergraduate student is assigned a faculty advisor who is responsible for academic advising during the first year. A student receiving a semester quality point average below 2.0 but who is not placed on academic probation is placed on academic guidance and is encouraged to work closely with the advisor.

An undergraduate student whose cumulative quality point average for Houghton College work falls below the following guidelines at the conclusion of a semester is considered in serious academic difficulty and is placed on academic probation. In this event, the student is required to meet with the advisor to develop a plan for academic improvement. Such a student is limited to 15 credit hours in the following semester. (Hours earned includes transfer hours.)

- If the total credit hours are less than 15, GPA must be at least 1.0.
- If the total credit hours are at least 15, but less than 27, GPA must be at least 1.5.
- If the total credit hours are at least 27, but less than 39, GPA must be at least 1.75.
- If the total credit hours are at least 39, GPA must be at least 2.0.
- Two semesters in a row with a semester GPA below 2.0 also results in probationary status.

The placement of students on guidance and probation occurs at the end of the semester grading period. If additional information is received that changes or completes the record, any change in status is made at the discretion of the Director of CASA.

Academic Dismissal

An undergraduate student is academically dismissed if he or she meets the criteria for probation two semesters in a row.

Any student dropped from the college for academic reasons may petition the Admission Committee for readmission. The case will be carefully studied to see if there is a basis for resuming at Houghton.

A student dropped from the student body for the above reason and readmitted by the Admission Committee is placed on academic probation and must maintain a quality point average of 2.00 or higher for each semester thereafter in order to remain in college.

Scholastic Honors

President's List – Recognizes undergraduate students who complete a minimum of 12 hours with a 4.0 quality point average for the semester – no incompletes or Fs allowed.

Dean's Honor List – Recognizes undergraduate students who complete a minimum of 12 hours with a quality point average for the semester of 3.75-3.999 – no incompletes or Fs allowed.

Dean's List – Recognizes undergraduate students who complete a minimum of 12 hours with a quality point average for the semester of 3.5-3.749 – no incompletes or Fs allowed.

Graduation Honors

The faculty will select for graduation honors undergraduate students of outstanding scholarship. Beginning with commencement 2010, for the recognition of *cum laude*, the student must have a cumulative quality point average of at least 3.5; for *magna cum laude*, at least 3.7; and for *summa cum laude*, at least 3.9. **Students transferring from other colleges must complete 62 hours in Houghton College in order to be eligible for graduation honors.** Graduation honors as published in the May commencement bulletin are based on the cumulative record at the end of the spring (normally eighth) semester, including the valedictorian and salutatorian. In order to be eligible to be valedictorian or salutatorian, the student must be full-time in spring, a May graduate, and have earned a minimum of 90 Houghton College credits.

Honors Project

Outstanding undergraduate students may be candidates for honors study projects and commencement citations in their major fields. To be declared eligible to undertake this special study, a student must have a cumulative quality point average of 3.25 and a 3.4 average in the major (courses numbered 200 and above). A proposal must be prepared and submitted for approval one year prior to graduation. Guidelines and policy details can be found on the Academic Records Office's webpage.

Independent Study

Independent study is a directed course in reading or research in which the student pursues an approved topic of general or special interest and meets with the instructor for direction, progress reports, and evaluation. To be eligible for independent study, a student must have unconditional standing as a sophomore or higher and must have a cumulative GPA of 2.75 or better.

An application for independent study should be submitted during the semester **prior** to the semester of study. Mayterm/summer independent study applications should reach the Academic Records Office by April 1.

A student may take independent study for variable credit (one to four hours maximum during a semester) up to a maximum of 12 semester hours toward graduation. Any faculty member may supervise the independent study project, but it **must not duplicate a regular course**. The burden of responsibility for learning will be on the student. Work on an independent study is to be completed within the semester, as in other courses. Because independent study presumes some prior acquaintance by the students with the field to be studied, an independent study may not be used to satisfy integrative studies requirements.

Students wanting to use an independent study to become full-time MUST submit their independent study documentation during the semester prior to the semester in which they intend to enroll. IF a student is not full-time prior to billing, the bill and financial aid will be incorrect due to the missing hours. IF a student will be considered full-time without the independent study the absolute cutoff date for submission is on or before the **seventh calendar day** after the first day of classes.

Internships

Many majors at Houghton College recognize a field placement experience as an integral component of professional preparation. Internships are considered to be quality experiential learning opportunities, generally in off-campus, nonacademic settings. They are intended as highly structured, professionally supervised experiences and usually occur during the junior or senior year. Internships require approval by the supervising academic department and extensive involvement by the student. Supervision is a shared responsibility between the academic department and the selected field agency. **Students need to be enrolled in their internships prior to beginning the experience.** They should enroll in the term (fall, spring, Mayterm or summer) when they are doing the field placement. They cannot enroll for the internship in a previous or subsequent semester to take advantage of a different year's tuition. Summer internships are specifically included in the Mayterm session of Summer policy and students and advisors should calculate the hours carefully when contemplating tuition-free internships.

Tutorial Study

Tutorial work is for the benefit of the student who needs a currently unavailable course; for example, one not scheduled for the semester when it is essential for graduation. Tutorial courses must be from the regular college catalog. Course approval and registration for tutorial courses shall be made in advance of the instructor's assigning any tutorial work for credit. Concurrence by the advisor, instructor, department chair, and area associate dean is required. The forms to be used for a proposed tutorial are available or on the Academic Record Office's website.

A tutorial fee shall be charged (see information on expenses). The instructor must meet with the student for the purpose of giving instruction and directing the tutorial work for a minimum of 7.5 clock hours for each hour of credit to be earned.

Mayterm

Mayterm is the first session of the Summer term. It begins on the Tuesday immediately following Commencement. The academic purpose is to permit students to take additional hours of credit before commencing summer employment. In general, catalog courses are offered. Students and professors also are encouraged to work together on campus doing independent studies. Off-campus practicums, if desired, are arranged by the department chair. Travel in the U.S.A. and abroad is a feature of this period. See Financial Information section for tuition information.

Senior-in-Absentia

Students of outstanding ability who are accepted by an accredited professional school after the completion of three years of undergraduate work may qualify for the appropriate degree by transferring back to Houghton credit for the first two years of professional study, thus shortening by one year their professional training. Such students will be taking their senior year in absentia. In such instances the Houghton degree will be conferred at the end of the second year of professional studies. Senior-in-absentia privilege does not apply to AA or AAS students.

The privilege described above may be available to students wishing to enter professional training for a career in medicine, veterinary medicine, dentistry, law, or engineering. Students entering nursing also may qualify for the senior-in-absentia privilege by transferring two years of nurse's training for the Houghton degree.

Preliminary application for the senior-in-absentia privilege must be made to the Houghton Academic Dean in the spring of the sophomore year. Additional details on this plan may be obtained from the academic records office. Students should notify the office of records at the beginning of their senior year. All senior-in-absentia students are considered August graduates.

Withdrawal from college

Any student in good standing is entitled to honorable withdrawal at any time. A student desiring to withdraw from the college (or one who does not plan to return the following semester) must obtain an application for withdrawal from the Academic Records Office, CASA, or from the ARO webpage. After securing the appropriate signatures, the student must have the record cleared by the Student Financial Services Office. The form must be properly completed and filed with the Academic Records Office before the student leaves campus. Withdrawal from college without accomplishing the above procedure will result in forfeiture of the right to honorable dismissal. No refunds (if applicable) will be made by the Student Financial Services Office until the Academic Records Office certifies that the withdrawal procedure has been properly completed.

A student called away during the semester by an emergency (including military duty) and who finds it impossible to resume must notify the Academic Records Office of withdrawal immediately. Unless this notice is filed within three weeks, the student may forfeit the right to honorable dismissal and receive a grade of F in each course.

Medical Leave

If a student has a medical condition (physical or psychological) that interferes with that student's ability to perform academically, or if that student's behavior/condition is such that other students are being hindered in their academic/living environment, a medical leave from the college may be granted. Such leave is granted by the dean of students. This is not a disciplinary action, and students given medical leave are encouraged to return to the college to continue their studies as soon as they are able to do so. An evaluation may be required to ascertain whether the behaviors/conditions that warranted the granting of the leave have been sufficiently addressed.

Center for Academic Success and Advising

Houghton College offers learning support for students through the Center for Academic Success and Advising Office. Any student may come to CASA for analysis of study strengths and weaknesses, or advice on study and examination strategies. Students may request course-specific peer tutoring. Learning support for students with disabilities is also offered.

Students with Disabilities

Houghton provides academic support services to students with disabilities including those with learning, mobility, sensory, health, or psychological impairments. These services include liaison with faculty members, promotion of self-advocacy skills, and securing appropriate classroom accommodations. Study skills counseling and tutoring are also available. Students with disabilities are encouraged to contact the director of the Center for Academic Success and Advising during the admission application process to discuss required documentation and appropriate accommodations. Documentation should be no more than three years old. Diagnosis by an appropriately trained professional is required.

Students needing academic adjustments or learning support services must contact the Director of the Center for Academic Success and Advising (585.567.9239).

Students needing facility adjustments must contact the Director of Facilities (585.567.9480).

The complete “Policy for Students with Learning-Related Disabilities” may be obtained from the Center for Academic Success and Advising or from the Admission Office.

Academic Petitions

Each student at Houghton may petition the academic petitions committee, regarding any academic matter. Specific actions requiring petition include: waiver of a specific academic requirement, waiver of a specific academic rule or stipulation, permission for a special academic condition or activity, or a request to take more than 18 credit hours in a semester.

Actions not requiring petition action: permission for 18 hours (use “Request for Academic Overload” form), permission to increase credits in variable-credit course (contact Academic Records Office), or permission to attend off-campus study opportunity (use specific application).

Further information is available in the Academic Records Office (ARO), and on the ARO webpage.

Graduation

A student must complete at least one major. Candidates for BA, BBA, BFA, and BS degrees must complete 124 semester hours. Candidates for the BMus must complete 128 semester hours. No more than 8 hours of ROTC or Theater Workshop may count toward graduation. No more than 8 hours of Equestrian Studies may count toward graduation unless student is in the Recreation major with an Equestrian track or the Equestrian Studies minor. Also, no more than 8 hours of applied music may count toward graduation for students who are not majoring or minoring in music. The minimum quality point average for graduation is 2.0. Grades in major, minor and concentration courses must be at the “C-” level or higher. Graduate graduation requirements can be found in the Grad Bulletin.

Residency Requirements

A student must complete at least 30 hours, one-half of the major and 18 of the last 24 hours at Houghton (except those under the senior-in-absentia privilege or those with special permission whose major or minor require them to be off campus). Other cases require a petition.

Second Degree

A student cannot earn a BA and a BS simultaneously. A student completing two majors, one leading to the BS degree and the other leading to the BA degree, is asked to choose which of the degrees to receive, and then graduates with one degree and two majors (choice of degree may depend on Liberal Arts hours). The only situation in which a student may be awarded two different baccalaureate degrees simultaneously is by completing all requirements for both a BMus or BFA and either a BA or a BS, including the relevant integrative studies hours for each. Students who have already earned a baccalaureate degree, either at Houghton College or elsewhere, may earn a second baccalaureate degree by completing all Houghton College requirements for the degree and earning at least 30 credit hours in residence at Houghton College subsequent to the awarding of the first degree. If the first degree was granted by Houghton College, the second degree *must* be a different degree, e.g., a BS earned subsequently to a BA. The cumulative grade point average of work subsequent to the first degree must be 2.0 or higher. As with all Houghton degrees at least half of the hours for the major must be earned from Houghton; however, they do not all need to be earned subsequent to the first degree.

Changes in Requirements

Changes in graduation requirements may occur during a student's career. On such occasions, students generally complete requirements as specified in the catalog for the year of their matriculation. However, the student may select a subsequent catalog in effect during his or her college career. Occasionally changes are made which include more precise implementation guidelines. If the student believes the major is unfairly or unreasonably modified, the student should consult the Academic Records Office.

Liberal Arts Requirements

Most of the courses at Houghton College are liberal arts courses, designed either for contributing to a general education or for enhancing understanding of a particular subject area or discipline of inquiry. Other courses are professional in nature, designed to prepare a student for a specific occupation, e.g., education, business, ministry.

The State of New York and Houghton College requires the following minimum percentage of a degree to be Liberal Arts:

- AA requires $\frac{3}{4}$ liberal arts
- AAS requires $\frac{1}{3}$ liberal arts
- BA requires $\frac{3}{4}$ liberal arts

- BS requires ½ liberal arts
- BBA, BFA, BMUS require ¼ liberal arts
- Graduate degrees to do not have liberal arts requirements.

Master of Arts in Music; Master of Music

A candidate for a master's degree chooses a curriculum from the listings to be found in [The Greatbatch School of Music Graduate Bulletin](#).

Bachelor of Arts

A candidate for the Bachelor of Arts degree selects a major, and that choice must be approved by the chair of that department. The BA degree requires a minimum of 93 credits of liberal arts and a total of 124 hours.

Bachelor of Science

A candidate for the Bachelor of Science degree may select a major from accounting, , Bible, biochemistry, biology, business administration, chemistry, communication, computer science, inclusive childhood education, physics, recreation, TESOL with culture, language & linguistics, or writing. Degree Completion students also have the option to major in Human Resource Management, Integrated Marketing and Communication, Leadership Development, or Management. The BS degree requires a minimum of 62 liberal arts credits and a total of 124 hours.

Bachelor of Business Administration

A candidate for the Bachelor of Science degree may select a major from Human Resource Management, Integrated Marketing and Communication, Leadership Development, or Management. The BBA degree requires a minimum of 32 liberal arts credits and a total of 124 hours.

Bachelor of Fine Arts

A candidate for the Bachelor of Fine Arts degree may select a major in Applied Design and Visual Communication or Studio Art. The BFA degree requires a minimum of 32 credits of liberal arts and a total of 124 hours.

Bachelor of Music

A candidate for the bachelor of music degree chooses a curriculum from the listings to be found under music in the Academic section. The BMUS degree requires a minimum of 32 credits of liberal arts and a total of 128 hours.

Associate of Arts

The AA degree is designed to prepare students for continued studies in the liberal arts. However, it also provides a general education for those wishing a two-year course for their own cultural enrichment.

A student may earn the associate in arts degree by completing a total of 62 semester hours (or 60 hours at the Houghton in Buffalo location) as follows:

AA degree at Houghton Arts and Science, Genesee Valley Campus:

A student may earn the associate in arts degree by completing a total of 62 semester hours as follows:

1. 40 hours of integrative studies (as described below).
2. 12 hours in an area of focus, chosen in consultation with an advisor. A student must receive grades of C- or higher in all courses in the area of focus; OR the student completes Houghton College's entire Integrative Studies package.
3. Cumulative grade point average must be 2.0 or higher.
4. At least 30 hours, including at least 18 of the last 24, must be from Houghton College, as well as at least half of the hours in the area of focus.
5. The Integrative Studies requirements for the AA:
6. Required courses - 12 hours: 4 hours of Writing, 4 hours of Culture: history or philosophy, 4 hours of Biblical Literature or, if eligible, a 200 level Bible course (excluding BIBL 251 and BIBL 261,
7. Additional hours - 28: INTS 102 Transitions 102: Succeeding at Houghton (1); Culture: (no more than one from each of these: Art (4), Music (4), History (4) or Philosophy (4) (must choose area not taken for the core requirements), and Literature (4); Faith Foundation: Introduction to Christianity (4); Creation: (no more than one from each of these): Lab Science (4), Mathematics (4); Competencies: (up to two language courses are allowed), Health and Wellness (1-4), Foreign Language (4, 4); Community: (must choose different areas if taking more than 4 hours (no more than 8 hours total)): Anthropology (4), Communication (2 or 4), Economics (2, 2), Political Science (4), Psychology (4), Sociology (4).

Houghton in Buffalo AA:

This program is a fixed curriculum in the liberal arts taught in a cohort model, with an area of focus in workplace readiness.

1. Requirements: minimum of 46 hours of Liberal Arts plus workplace readiness focus of 13 hours, the entire program totaling 61 hours. Literature (3), History (4), Philosophy (3), Writing (3), Communications (8), Psychology or Anthropology (3), Political Science (3), Art History or Music History (3), Science (3), Mathematics (3), Business (13), Economics (3), Biblical Literature (4), Introduction to Christianity (4), INDS Capstone (1).

At least 30 hours, including at least 18 of the last 24, must be from Houghton College.

Associate in Applied Science

A student earns the associate in applied science degree by completing the two-year Christian ministries course of 60 semester hours of which at least 22 are in liberal arts.

Majors/Minors

Each student should select one major area for specialized study by the time he/she earns 45 hours. Houghton College grants degrees in the following areas:

Department	Degree	HEGIS Code*
<i>Department of Art</i>		
Studio Art	BA	1002
Art Education	BS	0831
Studio Art	BFA	1002
Applied Design & Visual Communication	BFA	1002
<i>Department of Biblical Studies, Theology, and Philosophy</i>		
Bible	BA, BS	1510
Christian Ministries	AAS	5502
Philosophy	BA	1509
Theology	BA	2399

<i>Department of Biology</i>		
Biochemistry	BA, BS	0414
Biology	BA, BS	0401
<i>Department of Business and Economics</i>		
Accounting	BS	0502
Business Administration	BS	0506
<i>Department of Chemistry</i>		
Biochemistry	BA, BS	0414
Chemistry	BA, BS	1905
<i>Department of Communication</i>		
Communication	BA, BS	0601
<i>Department of Education</i>		
Adolescence Education		
Biology	BA	0401.01
Chemistry	BA	1905.01

English	BA	1501.01
Mathematics	BA	1701.01
Physics	BA	1902.01
Social Studies	BA	2201.01
Spanish	BA	1105.01
Inclusive Adolescence Education		
Biology	BA	0803
Chemistry	BA	0803
English	BA	0803
Mathematics	BA	0803
Physics	BA	0803
Social Studies	BA	0803
Spanish	BA	0803
Inclusive Adolescence Education General	BA	0803
Inclusive Childhood Education	BS	0802

TESOL with Culture, Language & Linguistics	BS	1508
<i>Department of English and Writing</i>		
English	BA	1501
Writing	BA, BS	1507
<i>Department of History and Political Science</i>		
History	BA	2205
Political Science	BA	2207
<i>Department of Intercultural Studies</i>		
Intercultural Studies	BA	2210
International Development	BA	2210
<i>Department of Mathematics</i>		
Mathematics	BA	1701
<i>Greatbatch School of Music</i> (See Graduate Bulletin for information regarding master's degree programs in music.		
Music	BA, MA	1004, 1005
Composition	MusB/Mu	1004.10

	sM	
Music Education	MusB	0832
Music with non-music elective studies	MusB	1004
Performance: Brass Instruments	MusB	1004
Performance: Organ	MusB	1004
Performance: Percussion Instruments	MusB	1004
Performance: Piano	MusB	1004
Performance: Stringed Instruments	MusB	1004
Performance: Voice	MusB	1004
Performance: Woodwind Instruments	MusB	1004
Collaborative Performance	MusM	1004
Conducting	MusM	1004
Performance	MusM	1004
<i>Department of Physics, Computer Science and Engineering</i>		
Applied Physics	BS	1999.20

Computer Science	BS	0701
Physics	BA, BS	1902
<i>Department of Psychology and Sociology</i>		
Psychology	BA	2001
<i>Department of Sport, Recreation & Wellness (Formerly Leisure Studies)</i>		
Recreation	BS	0835
<i>Department of World Languages and Literatures</i>		
Spanish	BA	1105
<i>Interdisciplinary/Special Studies</i>		
Human Resources Management	BBA, BS	0505, 0516
Humanities	BA	4903
Integrated Marketing and Communications	BBA, BS	0509
Interdisciplinary Studies	BA, BS	4999
Leadership Development	BBA, BS	0506
Management	BBA, BS	0515

Liberal Arts	AA	5649
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**HEGIS - Higher Education General Information Survey*

Associate Deans and Areas

Associate Dean for Arts and Letters: Susan Bruxvoort Lipscomb

- Department of Art
- Department of Communication
- Department of English and Writing

Associate Dean for Education and Physical Education: Cathy E. Freytag

- Department of Education
- Department of Physical and Health Education

Associate Dean for the Natural Sciences and Mathematics: Mark E. Yuly

- Department of Biology
- Department of Chemistry
- Department of Mathematics

Department of Physics, Computer Science and Engineering *Associate Dean for Religion and Global Service* Marcus W. Dean

- Department of Biblical Studies, Theology, and Philosophy
- Department of Intercultural Studies
- Department of World Languages and Literatures

Associate Dean for the School of Music: Armenio Suzano

Associate Dean for Social and Behavioral Sciences: Paul D. Young

- Department of Business and Economics
- Department of History and Political Science
- Department of Sport, Recreation & Wellness (Formerly Leisure Studies)
- Department of Psychology and Sociology

Integrative Studies (General Education)

Academic work at Houghton is organized under four categories: integrative studies, major work, minor work, and elective work. The system of majors and minors provides for general coordination and some intensive training that is often introductory to later professional preparation. Each student must have a major. Minors are optional. Some majors require a concentration.

Majors/Minors/Concentrations

In the major the undergraduate student must complete a minimum of 24 semester hours of major credit (any course numbered 200 or above unless otherwise specified). Many majors require more than 24 hours. At least one-half of a student's major must be completed at Houghton. The minor consists of 12 or more hours of work acceptable for major credit unless otherwise stated. With the exception of the concentrations within the Inclusive Childhood Education major which must be 30 credits or more, most concentrations at Houghton are 16 credits or more. No grades below C- count toward the major, minor, or concentration. Students majoring in a Bachelor of Music curriculum may, with the approval of the director of The Greatbatch School of Music, be permitted to count one D-level grade in the music theory sequence (MTH 220, 227, 325, 327) and one D-level grade in the music history sequence (MHS 230, 280, 380). Graduate students should consult the Greatbatch School of Music Bulletin.

Self-Designed Minor

This option is available for undergraduate students wishing to specialize in an area not covered by an existing minor. It consists of 12 to 15 hours of courses 200 or above and will be proposed by the student in consultation with the faculty advisor and approved by the area associate dean. Approval for such minors will include consideration of how the choice of courses supports the stated academic goals of the student.

Integrative Studies (General Education) Requirements for BA, BFA, and BS Degrees

In keeping with the major objective of the college, to provide a liberal arts education within the framework of the Christian faith, each candidate for the BA, BFA, and BS degree is required to take a stipulated package of integrative studies (general education) courses unless given graduation credit and/or advanced standing on the basis of advanced placement or standardized departmental tests. (Graduation credit and/or advanced standing are contingent on a favorable review of the examination papers by Houghton faculty members.) Students also need to meet a required number of liberal arts credits for their specific degree (93 for the BA, 63 for the BS, and 32 for the BBA, BFA, and BMUS).

Departments

Department of Adult Education [view dept. website](#)

Marlene Collins-Blair, Associate Dean of Distance Education

716.674.6363 | adulthoodeducation@houghton.edu

Overview

Adult Education

Houghton College offers an adult degree completion program leading to a bachelor of business administration degree as well as a bachelor of science degree in Human Resources Management, Integrated Marketing and Communication, Leadership Development, or Management. Designed to accommodate adult learners who have had to delay completion of their studies in higher education due to work, family or other commitments, the program provides convenient scheduling, contemporary technology, high-quality instruction and accessible course facilitators.

The adult degree completion offering is intended to build on previous college credit and experience equivalent to about two years of college. The degree, which can be completed in about 18 months, has three major requirements:

1. Transfer of 63 semester hours from approved institutions to Houghton College.
2. Completion of all non-core credit requirements as determined after initial transcript review (up to 24 hours of credit).
3. Completion of an advance-level, interdisciplinary core of 37 or 40 semester hours, comprised of 12 to 15 three-hour courses and a one-credit hour workshop series.

Note: The combination of transfer credit and non-core credit must provide a minimum of 87 semester hours for completion of degree requirements. Student with fewer total hours may take additional courses at Houghton or elsewhere, or may pursue DSST or experiential learning credits.)

General Education minima:

Certain minimum general education requirements must also be met as part of the non-core credit requirements. These general education requirements are:

Minimum hours

Category	Credit hours
Religion and philosophy	6
Communication (written and spoken)	6
Humanities and social science <i>(at least 6 hours in humanities and 3 in social sciences, but no more than 6 hours in any one discipline)</i>	18
Mathematics/computer science	3
Science	3
Total	36

The adult degree completion program is conducted year-round. Each core course is taken over eight weeks, a total of four courses can be completed each spring, summer, and fall semesters. Students may be full-time and may be eligible to apply for federal and state financial aid and student loans.

For more information call 716.674.6363 or 888.874.7223, or visit [Adult Education](#).

FACULTY

Marlene G. Collins-Blair

MAJORS

Human Resources Management

BBA/BS (40 hours)

The Adult Education offerings provide a Human Resources Management major which can be used toward the BBA or the BS.

For more information, write to Adult Education, Houghton College at West Seneca, 2732 Transit Road, West Seneca, NY 14224, call 716.674.6363 or 888.874.7223, or visit [Adult Education](#).

Requirements	Credits
<i>Core Classes:</i>	
PY 300 Adult Development	3
ID 200 Student Success Seminar	1
BU 300 Business Writing	3
BU 315 Work Team Dynamics	3
BU 400 Fundamentals of Management	3
ST 400 Quantitative Decision Making	3
SO 400 Diversity in the Workplace	3
PH 400 Personal and Professional Ethics	3
BU 430 Organizational Development	3
<i>Major Specific Courses:</i>	
BU 410 Human Resources Management	3
BU 310 Employment Law	3

BU 415 Staffing and Performance Management	3
BU 420 Employee Training and Development	3
BU 425 Managing Total Rewards: Compensation and Benefits	3
Total credits for the major	40

Integrated Marketing and Communication

BBA/BS (37 hours)

The Adult Education offerings provide an Integrated Marketing and Communication major which can be used toward the BBA or the BS.

For more information, write to Adult Education, Houghton College at West Seneca, 2732 Transit Road, West Seneca, NY 14224, call 716.674.6363 or 888.874.7223, or visit [Adult Education](#).

Requirements	Credits
<i>Core Classes:</i>	
PY 300 Adult Development	3
ID 200 Student Success Seminar	1
BU 300 Business Writing	3
BU 315 Work Team Dynamics	3

BU 400 Fundamentals of Management	3
ST 400 Quantitative Decision Making	3
SO 400 Diversity in the Workplace	3
PH 400 Personal and Professional Ethics	3
BU 430 Organizational Development	3
<i>Major Specific Courses:</i>	
CM 331 Marketing Principles	3
CM 342 Advertising Principles	3
CM 356 Marketing Research	3
CM 430 Integrated Marketing and Communication	3
Total credits for the major	37

Management

BBA/BS (37 hour core)

Requirements	Credits
<i>Core Classes:</i>	

PY 300 Adult Development	3
ID 200 Student Success Seminar	1
BU 300 Business Writing	3
BU 315 Work Team Dynamics	3
BU 400 Fundamentals of Management	3
ST 400 Quantitative Decision Making	3
SO 400 Diversity in the Workplace	3
PH 400 Personal and Professional Ethics	3
BU 430 Organizational Development	3
<i>Major Specific Courses:</i>	
AC 400 Accounting and Finance for the Non-Financial Manager	3
BU 410 Human Resources Management	3
PY 310 Conflict Management	3
BU 325 Project Management	3
Total credits for the major	37

Leadership Development

BBA/BS (40 hours)

The Adult Education offerings provide a Leadership Development major which can be used toward the BBA or the BS.

For more information, write to Adult Education, Houghton College at West Seneca, 2732 Transit Road, West Seneca, NY 14224, call 716.674.6363 or 888.874.7223, or visit [Adult Education](#).

Requirements	Credits
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<i>Core Classes:</i>	
PY 300 Adult Development	3
ID 200 Student Success Seminar	1
BU 300 Business Writing	3
BU 315 Work Team Dynamics	3
BU 400 Fundamentals of Management	3
ST 400 Quantitative Decision Making	3
SO 400 Diversity in the Workplace	3
PH 400 Personal and Professional Ethics	3
BU 430 Organizational Development	3
<i>Major Specific Courses:</i>	
BU 320 Leadership Development	3
CM 210 Interpersonal Communication	3
PY 215 Social Psychology	3
PY 310 Conflict Management	3

BU 330 Leading Change	3
Total credits for the major	40

MINORS

Human Resource Management

Adult Education: 12 hours

Requirements	Credits
BU 210 Employment Law	3
PY 310 Conflict Management	3
BU 417 Business Ethics	3
BU 415 Staffing and Performance Management	3
Total	12

Leadership

Adult Education: 12 hours

Requirements	Credits
PY 215 Social Psychology <i>or</i> PY 301 Psychology of Personality	3
BU 320 Leadership Development	3
PY 310 Conflict Management	3
BU 417 Business Ethics	3
Total	12

Marketing

Requirements	Credits
CM 331 Marketing Principles	3
CM 342 Advertising Principles (prerequisite: CM 331)	3
ADC 319 Marketing Research (prerequisite: CM 331)	3
BU 417 Business Ethics	3
Total	12

Gary D. Baxter, Chair | Susan Bruxvoort Lipscomb, Interim Associate Dean

585.567.9401 | art@houghton.edu

Overview

The art department offers opportunities to study that are structured to develop in students an understanding of the meaning, both past and present, of art in society. Art majors and minors acquire comprehensive experience in use of materials and technique, while gaining confidence in their ability to integrate faith, knowledge, and creativity. The art major complements the Christian liberal arts experience to prepare students for teaching, professional art production, and graduate studies.

The student's experience is diversified through visiting artists, on-campus gallery exhibits, and off-campus trips that provide students access to cultural resources in cities throughout the northeast. The art department also offers Mayterm art history experiences every other spring in cities such as Paris, London, Munich, Berlin, Istanbul, Vienna, Budapest, Florence, Rome, Lisbon, and Madrid.

To major in Art Education a student must complete both the Art Education major (see Education department page) and the Double major in art and another discipline major.

FACULTY

Gary Baxter	Ryann Cooley	David M. Huth	Madison T. Murphy
Theodore J. Murphy	John M. Rhett	Alicia Taylor	

MAJORS

Art as a 2nd Major

BS (36 - 44 hours)

To major in Art Education: Must major in both the Double major in art and another discipline and the Art Education major listed in the Education Department section of this catalog.

Double major in art and another discipline requirements: 36 - 44 hours

Required Courses	Credits
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ART 131 Intro to Visual Arts	2
ART 211 Drawing I	2
ART 241 Two-dimensional Design	2
ART 242 Three-dimensional Design	2
Total	8
Art History Courses	
Credits	
<i>Select two of the following courses:</i>	
ART 231 Ancient Art History	4
ART 232 Renaissance and Baroque Art History	4
ART 234 Art and Architecture in Europe	4
ART 235 African Art History	4
ART 236 Asian Art History	4
ART 237 Modern & Contemporary Western Art History	4
ART 314 Art and History of Film	4
Total	8

Studio Courses	Credits
ART 285/286/287 Fine Arts Seminar <i>(must take 4 out of 8 semesters; may be repeated up to 4 credits or taken for 0 credit)</i>	0 - 4
ART 2xx Art Studio Elective	4
ART 2xx Art Studio Elective	4
ART 3xx Art Studio Elective	4
ART 385/386 Junior Studio 1 and 2	2, 2
ART 485 Senior Studio	2
ART 486 Senior Seminar and Exhibition	2
Optional Course	Credits
Fine Arts Internship	4
Studio Total	20 - 28

Art with Studio Concentration

BA (44 - 52 hours)

Required Courses	Credits
ART 131 Intro to Visual Arts	2
ART 211 Drawing I	2
ART 241 Two-dimensional Design	2
ART 242 Three-dimensional Design	2

Total	8
Art History	
Credits	
<i>Choose two of the following courses: at least one must be Renaissance, Ancient, or Modern/Contemporary</i>	
ART 231 Ancient Art History	4
ART 232 Renaissance and Baroque Art History	4
ART 234 Art and Architecture in Europe	4
ART 235 African Art History	4
ART 236 Asian Art History	4
ART 237 Modern & Contemporary Western Art History	4
ART 314 Art and History of Film	4
Total	8
Studio Courses	
Credits	
ART 285/286/287 Fine Arts Seminar <i>(must take 4 out of 8 semester; may be repeated up to 4 credits or taken for 0 credits)</i>	0 - 4
ART 2xx Art Studio Elective	4
ART 2xx Art Studio Elective	4
ART 2xx Art Studio Elective	4
ART 3xx Art Studio Elective	4
ART 3xx Art Studio Elective	4
ART 385/386 Junior Studio 1 and 2	2, 2
ART 485 Senior Studio	2

ART 486 Senior Seminar and Exhibition	2
Optional Course	Credits
Internship	4
Studio Total	28 - 36

BFA in Applied Design and Visual Communication

BFA (62 - 72 hours)

The BFA in Applied Design and Visual Communication is an art and communication partnership. It requires 62-72 hours in art and communication.

Required Art & Communication theory & foundation Courses	Credits
ART 131 Intro to Visual Arts	2
ART 241 Two-dimensional Design	2
ART 242 Three-dimensional Design	2
COMM 214 Intro to Mass Media	4

Total	10
Required Art and Communication studio Courses	Credits
ART 228 Digital Video I	4
ART 245 Graphic Design I	4
ART 281 Intro to Photography	4
ART 284 Intro to Digital Imaging	4
ART 345 Graphic Design II	4
COMM 232 Intro to Web Communication	4
Total	24

Art History Courses	Credits
<i>Select two of the following courses: (at least one must be Renaissance, Ancient, or Modern/Contemporary)</i>	
ART 231 Ancient Art History	4
ART 232 Renaissance and Baroque Art History	4
ART 234 Art and Architecture in Europe	4
ART 235 African Art History	4
ART 236 Asian Art History	4
ART 237 Modern & Contemporary Western Art History	4

ART 314 Art and History of Film	4
Total	8
Studio Courses	Credits
<i>Select three of the following courses: (minimum 10 hours)</i>	
ART 382 Advanced Topics in Photography	4
ART 384 Advanced Digital Imaging	4
COMM 328 Digital Video II	4
ART 263 Typography and Letterpress Printing	2
COMM Intro to Pro Tools	3

Total	10 - 12
Additional Required Courses	Credits
ART 285/286/287 Fine Arts Seminar <i>(must take 6 out of 8 semester: may be repeated up to 4 credits or taken for 0 credit)</i>	0 - 4
ART 383 Applied Design Internship	4
ART/COMM xxx Electives	4 - 8
ART 486 Senior Seminar and Exhibition	2
Total	10 - 18

BFA in Studio Art

BFA (60 - 68 hours)

Required Courses	Credits
ART 131 Intro to Visual Arts	2

ART 211 Drawing I	2
ART 241 Two-dimensional Design	2
ART 242 Three-dimensional Design	2
Total	8
Art History Courses	
Credits	
<i>Select three of the following courses:</i>	
ART 231 Ancient Art History	4
ART 232 Renaissance and Baroque Art History	4
ART 234 Art and Architecture in Europe	4
ART 235 African Art History	4
ART 236 Asian Art History	4
ART 237 Modern & Contemporary Western Art History	4
ART 314 Art and History of Film	4
Total	12
Studio Courses	
Credits	
ART 285/286/287 Fine Arts Seminar <i>(must take 6 out of 8 semester; may be repeated up to 4 credits or taken for 0 credits)</i>	0 - 4
ART 2xx Art Studio Elective	4
ART 2xx Art Studio Elective	4
ART 2xx Art Studio Elective	4
ART 2xx Art Studio Elective	4

ART 2xx Art Studio Elective	4
ART 3xx Art Studio Elective	4
ART 3xx Art Studio Elective	4
ART 3xx Art Studio Elective	4
ART 385/386 Junior Studio 1 and 2	2, 2
ART 485 Senior Studio	2
ART 486 Senior Seminar and Exhibition	2
Optional Course	Credits
Fine Arts Internship	4
Studio Total	40 - 48

MINORS

Art

14 hours

A student may obtain an art minor by completing 14 hours in art.

PRE-PROFESSIONAL

Pre-Art Therapy

Combined art and psychology offering

Faculty Advisor: Paul Young

Students interested in art therapy as a career may prepare for graduate study in the field by either majoring in art with a structured minor in psychology, or by majoring in psychology with a structured minor in art. Either path will enable the student to fulfill the undergraduate requirements for graduate school admission and the guidelines of the American Art Therapy Association.

Art Major option: The American Art Therapy Association requires a minimum of 12 semester hours in psychology, including Developmental Psychology and Abnormal Psychology. Some graduate programs recommend additional undergraduate psychology coursework. Students majoring in art should take the following courses for at least a minor in psychology.

Psychology Courses to be taken with Art major	Credits
PSY 213 Developmental Psychology	4
PSY 305 Abnormal Psychology	3
<i>at least two more courses selected from the following in consultation with Professor Young</i>	
PSY 217 Adolescence and Emerging Adulthood	2
PSY 310 Experimental Methods (with a prerequisite of PSY 307 <i>and</i> 308 <i>or</i> 309 Statistics)	4
PSY 314 Child Psychopathology	3
PSY 402 Counseling and Psychotherapy	4
PSY 410 Practicum in Psychology (in an art therapy setting)	1, 2, or 3
Psychology Total	at least 12

Psychology Major option: The American Art Therapy Association requires a minimum of 18 semester hours in studio art, so that the student can “demonstrate proficiency and disciplined commitment in art making... using a variety of art materials and processes”. Students majoring in psychology should take the Applied/Pre-Therapy track, including a practicum in an art therapy setting. They should also take at least 18 credits in studio art classes to cover a variety of media, such as the following, selected in consultation with Advisor.

Art Courses to be taken with Psychology Major	Credits
ART 271 Ceramics I	4
ART 241 Two-Dimensional Design	2

ART 242 Three-Dimensional Design	2
ART 211 Drawing I	2
ART 245 Graphic Design I	4
ART 221 Painting I	4
Art Total	at least 18 credits

In addition to the options outlined above, a student interested in Art Therapy could complete a double major in art and psychology. Such students should consult with Professor Young about appropriate selection of courses.

Department of Biblical Studies, Theology and Philosophy

Michael Jordan, Chair; Marcus Dean, Area Dean

585.567.9460

Overview

The mission of the Department of Biblical Studies, Theology, and Philosophy is to provide study opportunities in all three areas and to prepare Christians to serve in the global community. Whether they major in Bible, Theology, or Philosophy, the career options they may follow vary widely. Houghton graduates go into business, church-related work, counseling, education, finance, government service, journalism, law, library science, linguistics, medicine, missions, public administration, relief work, and translation, as well as others fields. The faculty in the Department engage students in learning about their theological and philosophical roots as they explore new ways to solve problems in today’s increasingly interdisciplinary world. Any of these majors is designed to prepare students for graduate study in these and cognate fields.

FACULTY

Jonathan P. Case	Sarah B. C. Derck	Richard K. Eckley	Carlton D. Fisher
John Michael Jordan	Kristina LaCelle-Peterson	Benjamin J. B. Lipscomb	Terence P. Paige
William Christopher Stewart			

MAJORS

Bible

BA/BS (32-33 core hours in the major; 6 co-requisite hours)

Co-requisites	Credits
GREK 101, 102 Greek or HEBR 101, 102 Hebrew	3, 3
Total	6
Required Courses	Credits
BIBL 221 Biblical Interpretation	3

BIBL 231 Pentateuch	3
BIBL 233 Jesus and the Gospels	3
BIBL 355 Biblical Theology I	2
BIBL 356 Biblical Theology II	2
GREK 201 Greek Readings or HEBR 201 Hebrew Readings or CRFM 325 Bible Study & Teaching Methods	2 or 3
Bible Electives <i>(may include up to 3 hours of any THEL course)</i>	15
BIBL 482 Senior Capstone: Senior Seminar	2
Total	32-33

A major in Bible is recommended for those expecting to become missionaries, teachers or leaders in para-church ministries, and translators. It is also an excellent base for seminary or graduate work in biblical studies, theology, and related disciplines. Majors must take all core courses and co-requisite courses.

Bible as 2nd Major

BA/BS (24 hours)

Core Requirements	Credits
BIBL 221 Biblical Interpretation	3
BIBL 231 Pentateuch	3
BIBL 233 Jesus and the Gospels	3
BIBL 355 Biblical Theology I	2
BIBL 356 Biblical Theology II	2
BIBL 482 Senior Capstone: Senior Seminar	2
Bible Electives <i>(Any course with BIBL prefix; Bible Study & Teaching Methods (CRFM 325); and up to 3 hours of any THEL courses.</i>	9

Total	24
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Bible major with Missions Concentration

BA/BS (29 major hours; 19-20 concentration hours)

Major Courses	Credits
BIBL 221 Biblical Interpretation	3
BIBL 231 Pentateuch	3
BIBL 233 Jesus and the Gospels	3
BIBL 355 Biblical Theology I	2
BIBL 356 Biblical Theology II	2
GREK 101, 102 Greek or HEBR 101, 102 Hebrew	3, 3
Bible Electives	8
BIBL 482 Senior Capstone: Senior Seminar	2
Total	29
Missions Concentration	Credits
MISS 241 History of the Global Christian Movement	4
MISS 242 Missions and the Global Church	4
INCL 243 Cultural Anthropology or INCL 310 Intercultural Competencies or INCL 350 Culture Change	4
MISS 341 Biblical and Theological Foundations or MISS 342 Contextualization in Missions	4
Choose one elective in INCL, LING, MISS, THEL, or URMN	3 or 4
Total	19 or 20

Total in major and concentration	48 or 49
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Christian Ministries

AAS (62 hours)

The Christian ministries curriculum is a two-year program which leads to the associate of applied science degree. The course of study requires a total of 62 hours and provides a strong Bible-centered preparation for Christian service in the church or mission field.

The curriculum consists of 22 hours in integrative studies requirements, 28 hours in required religion courses, and a 12- to 14-hour concentration. Choose from Communication/Writing, Humanities, Religion (Bible, Christian Formation, Missions, and Ministerial) or social science. Additional credit hours to total 62 will consist of electives.

Integrative Studies Requirements	Credits
BIBL 101 Biblical Literature <i>(or Advanced Bible if qualified)</i>	4
WRIT 101 Writing in the Liberal Arts	4
Math or Science	3 - 4
Philosophy	4
THEL 209 Introduction to Christianity	4
Integrative Studies electives to total 22 credits <i>(suggested courses in History or Social Sciences)</i>	2 - 3
Total	22
Major requirements	Credits
BIBL 221 Biblical Interpretation	4

Old Testament Bible (<i>Pentateuch preferred</i>)	4
New Testament Bible (<i>Jesus & the Gospels preferred</i>)	4
Any 4 hours in Missions (<i>MISS prefix</i>)	4
MIN 210 Introduction to Christian Ministry	2
CRFM 231 Foundations of Educational Ministry	2
CRFM 325 Bible Study and Teaching Methods	4
CHMN 251, 252 Internship	2, 2
Total	28
Concentration	Credits
Choose a concentration from Communication/Writing, Humanities, Religion (Bible, Christian Formation, Missions and Ministerial) or social science.	12 - 16
Electives	Credits
Elective courses if necessary to total 62 credits in all	0 - 2

Integrative Philosophy

BA (24 hours in philosophy combined with 16 hours in allied field)

Philosophy Requirements	Credits
History of Philosophy (<i>At least two courses selected from the following courses</i>)	
PHIL 243 Ancient Philosophy	4

PHIL 244 Medieval Philosophy	4
PHIL 245 Early Modern Philosophy	4
PHIL 246 Late Modern & Contemporary Philosophy	4
Total	8
<i>Additional Philosophy Requirements</i>	
Philosophy Electives	14
PHIL 495 Senior Capstone: Philosophy Colloquium	2
Philosophy Total	24
Allied Discipline Requirements	
16 hours in allied field. Pre-approved fields are: Business Administration, Communication, Biblical Studies, Theology, Art, politics, Psychology, Literature, Writing, and Science (Pre-Med emphasis). Check with any philosophy faculty on specific requirements (if any) for each area. Other allied fields are possible, with approval from the department coordinator.	16

Philosophy

BA (32 hours)

Houghton philosophy majors are free to explore a wide range of questions the answers to which strengthen the foundation of a person's worldview and assist him or her to think through the relationships of all branches of knowledge and practice to the Christian faith. Work within other disciplines rests on philosophical commitments regarding the ways we know, the nature of reality, and basic human values (which is one reason Houghton students are required to take at least one course in philosophy). Philosophy courses at Houghton connect directly or indirectly with many other areas, such as law, medicine, the arts, theology, business, and even the sciences. This, together with the fact that the study of philosophy significantly enhances basic intellectual skills (such as critical thinking, conceptual analysis, reading comprehension, and writing), makes the study of philosophy excellent pre-professional training, whether you're thinking of pursuing work in church-related ministry (pre-seminary), law, education (elementary, secondary, or college), missions, linguistics/translation, medicine, business, finance, counseling, government service, public administration, journalism, library science, relief work, or just about any other field of work. The philosophy major at Houghton is compact and flexible, making it a good choice as a standalone or a second major. The philosophy minor is also a great complement to work in other fields. In addition to courses on the history of ideas (from Plato to Postmodernism), logic and critical thinking, Houghton offers "bridge courses" that directly link the study of philosophy to other disciplines, such as Philosophy of Law, Introduction to Political Thought, Medical Ethics, History and Philosophy of

Science, Aesthetics, and Reason and Religious Belief. A little additional coursework in areas outside philosophy, such as business, psychology or sociology, opens up the possibility of internships in a wide variety of settings.

History of Philosophy (<i>At least three courses selected from the following courses</i>)	Credits
PHIL 243 Ancient Philosophy	4
PHIL 244 Medieval Philosophy	4
PHIL 245 Early Modern Philosophy	4
PHIL 246 Late Modern & Contemporary Philosophy	4
Total	12
Other Required Courses	Credits
PHIL 222 Logic & Critical Thinking	4
Philosophy Electives level 220 and above (<i>eight hours must be at the 400-level</i>)	14
PHIL 495 Senior Capstone: Philosophy Colloquium	2
Major Total	32

Philosophy as a 2nd Major

BA (24 hours)

History of Philosophy (<i>At least two courses selected from the following courses</i>)	Credits
PHIL 243 Ancient Philosophy	4

PHIL 244 Medieval Philosophy	4
PHIL 245 Early Modern Philosophy	4
PHIL 246 Late Modern & Contemporary Philosophy	4
Total	8
Other Required Courses	Credits
Philosophy Electives	14
PHIL 495 Senior Capstone: Philosophy Colloquium	2
Total	24

Theology

BA/BS (30 hours)

The **comprehensive major in Theology** is provided for those who want a liberal arts degree with a maximum of Biblical and theological studies. This curriculum is generally accepted for entrance into seminary or other graduate institutions and is satisfactory for students going into missionary work that requires a liberal arts degree.

Specific Requirements	Credits
THEL 313 Systematic Theology <i>(required for Wesleyan ordination)</i>	4
THEL 327 Church, Mission , and Culture <i>(required for Wesleyan ordination)</i>	4
THEL 220 History of Christianity <i>(required for Wesleyan ordination)</i>	4
THEL 320 Spiritual Formation <i>(required for Wesleyan ordination)</i>	4
REL 482 Senior Capstone: Seminar in Theology	2
Total Core	18

Bible Requirements	Credits
BIBL 221 Biblical Interpretation (<i>required for Wesleyan ordination</i>)	4
BIBL 355 Biblical Theology I	2
BIBL 356 Biblical Theology II	2
Total	8
Choose two from the following:	Credits
REL 222 New Religious Movements I	2
REL 232 New Religious Movements II	2
REL 221 Hinduism and Buddhism	2
REL 225 Taoism and Confucianism	2
REL 231 Judaism	2
THEL 230 Building Shalom: Justice, Love, and the Christian Life	2
THEL 232 Poverty, Wealth, and the Christian Gospel	2
Total	4

Students electing the comprehensive major in Theology must satisfy all normal integrative studies requirements. Students are strongly encouraged to satisfy integrative studies language requirements by taking one of the Biblical languages (Greek or Hebrew). A curriculum plan for this major is available through the Department of Biblical Studies, Theology and Philosophy.

Theology as 2nd Major

BA/BS (24 hrs)

Theology Core Requirements	Credits
THEL 313 Systematic Theology <i>(required for Wesleyan ordination)</i>	4
THEL 327 Church, Mission, and Culture <i>(required for Wesleyan ordination)</i>	4
THEL 220 History of Christianity <i>(required for Wesleyan ordination)</i>	4
THEL 320 Spiritual Formation <i>(required for Wesleyan ordination)</i>	4
THEL 482 Senior Capstone: Seminar in Theology	2
Total	18
Electives	Credits
Theology or Religion Electives <i>(210 or above)</i>	6
Total	24

Theology Major with Missions and Intercultural Studies Concentration

BA/BS (30 hour major combined with 22-26 hour concentration)

Specific Requirements	Credits
THEL 313 Systematic Theology <i>(required for Wesleyan ordination)</i>	4
THEL 327 Church, Mission , and Culture <i>(required for Wesleyan ordination)</i>	4
THEL 220 History of Christianity <i>(required for Wesleyan ordination)</i>	4
THEL 320 Spiritual Formation <i>(required for Wesleyan ordination)</i>	4
REL 482 Senior Capstone: Seminar in Theology	2
Total	18

Bible Requirements	Credits
BIBL 221 Biblical Interpretation <i>(required for Wesleyan ordination)</i>	4
BIBL 355 Biblical Theology I	2
BIBL 356 Biblical Theology II	2
Total	4
Choose two from the following:	Credits
REL 222 New Religious Movements I	2
REL 232 New Religious Movements II	2
REL 221 Hinduism and Buddhism	2
REL 225 Taoism and Confucianism	2
REL 231 Judaism	2
THEL 230 Building Shalom: Justice, Love, and the Christian Life	2
THEL 232 Poverty, Wealth, and the Christian Gospel	2
Total	4

Missions & Intercultural Studies Concentration	Credits
INCL/ANTH 310 Intercultural Competencies	4
INCL/ANTH/SOC 243 Cultural Anthropology	4
MISS 341 Biblical and Theological Foundations of Missions	4
MISS 222 The Contemporary Church in Missions	4
Cross-cultural experience	0 - 4

Total	16 - 20
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Students electing the comprehensive major in Theology must satisfy all normal integrative studies requirements. Students are strongly encouraged to satisfy integrative studies language requirements by taking one of the Biblical languages (Greek or Hebrew). A curriculum plan for this major is available through the Department of Biblical Studies, Theology and Philosophy.

Theology Major with Music and Worship Ministries

BA/BS (30 hour major combined with 21-24 hour concentration)

Specific Requirements	Credits
THEL 313 Systematic Theology <i>(required for Wesleyan ordination)</i>	4
THEL 327 Church, Mission , and Culture <i>(required for Wesleyan ordination)</i>	4
THEL 220 History of Christianity <i>(required for Wesleyan ordination)</i>	4
THEL 320 Spiritual Formation <i>(required for Wesleyan ordination)</i>	4
REL 482 Senior Capstone: Seminar in Theology	2
Total Core	18
Bible Requirements	Credits
BIBL 221 Biblical Interpretation <i>(required for Wesleyan ordination)</i>	4
BIBL 355 Biblical Theology I	2
BIBL 356 Biblical Theology II	2
Total	8
Choose two from the following:	Credits
REL 222 New Religious Movements I	2
REL 232 New Religious Movements II	2
REL 221 Hinduism and Buddhism	2

REL 225 Taoism and Confucianism	2
REL 231 Judaism	2
THEL 230 Building Shalom: Justice, Love, and the Christian Life	2
THEL 232 Poverty, Wealth, and the Christian Gospel	2
Total	4

Music and Worship Ministries Concentration	Credits
MCHU 311 Historical Congregational Song	2
MCHU 312 Recent Congregational Song	2
MCHU 451 Music and Worship	3
MIN 210 Introduction to Christian Ministries	3
MIN 316 Worship in the Church	4
WRIT 311 Poetry, Liturgy, and Worship	4
MIN 410 Ministerial Field Education	3-6
Total	21-24

Students electing the comprehensive major in Theology must satisfy all normal integrative studies requirements. Students are strongly encouraged to satisfy integrative studies language requirements by taking one of the Biblical languages (Greek or Hebrew). A curriculum plan for this major is available through the Department of Biblical Studies, Theology and Philosophy.

Theology Major with Pastoral Ministries Concentration

BA/BS (30 hour major combined with 21-24 hour concentration)

The Pastoral Ministries Concentration is combined with the major in Theology (30 hours) with a 21-24 hour pastoral ministries concentration. This curriculum is a four-year terminal program designed to prepare students for pastoral ministry service. This curriculum is so structured that all academic requirements for ministerial ordination in The Wesleyan Church can be fulfilled. Students interested in Wesleyan ordination should consult the theology department chair or the director of ministerial

education for particular course requirements. This program will also contribute to the ordination requirements of other denominations.

Specific Requirements	Credits
THEL 313 Systematic Theology <i>(required for Wesleyan ordination)</i>	4
THEL 327 Church, Mission , and Culture <i>(required for Wesleyan ordination)</i>	4
THEL 220 History of Christianity <i>(required for Wesleyan ordination)</i>	4
THEL 320 Spiritual Formation <i>(required for Wesleyan ordination)</i>	4
REL 482 Senior Capstone: Seminar in Theology	2
Total Core	18
Bible Requirements	Credits
BIBL 221 Biblical Interpretation <i>(required for Wesleyan ordination)</i>	4
BIBL 355 Biblical Theology I	2
BIBL 356 Biblical Theology II	2
Total	8
Choose two from the following:	Credits
REL 222 New Religious Movements I	2
REL 232 New Religious Movements II	2

REL 221 Hinduism and Buddhism	2
REL 225 Taoism and Confucianism	2
REL 231 Judaism	2
THEL 230 Building Shalom: Justice, Love, and the Christian Life	2
THEL 232 Poverty, Wealth, and the Christian Gospel	2
Total	4

Pastoral Ministries Concentration	Credits
CRFM 231 Foundations of Educational Ministry	2
MIN 210 Introduction to Christian Ministries	3
MIN 316 Worship in the Church	3
MIN 317 Leadership in the Church	3
MIN 324 Principles of Expository Preaching	4
THEL 315 Wesleyan Tradition	3
MIN 410 Ministerial Field Education	3-6
Total	21-24

Students electing the comprehensive major in Theology must satisfy all normal integrative studies requirements. Students are strongly encouraged to satisfy integrative studies language requirements by taking one of the Biblical languages (Greek or Hebrew). A curriculum plan for this major is available through the Department of Biblical Studies, Theology and Philosophy.

Theology Major with Religious Studies Concentration (pending)

BA/BS (30 hour major combined with 16 hour concentration)

Specific Requirements	Credits
THEL 313 Systematic Theology <i>(required for Wesleyan ordination)</i>	4
THEL 327 Church, Mission , and Culture <i>(required for Wesleyan ordination)</i>	4
THEL 220 History of Christianity <i>(required for Wesleyan ordination)</i>	4
THEL 320 Spiritual Formation <i>(required for Wesleyan ordination)</i>	4
REL 482 Senior Capstone: Seminar in Theology	2
Total	18
Bible Requirements	Credits
BIBL 221 Biblical Interpretation <i>(required for Wesleyan ordination)</i>	4
BIBL 355 Biblical Theology I	2
BIBL 356 Biblical Theology II	2
Total	8
Choose two from the following:	Credits
REL 222 New Religious Movements I	2
REL 232 New Religious Movements II	2
REL 221 Hinduism and Buddhism	2
REL 225 Taoism and Confucianism	2
REL 231 Judaism	2
THEL 230 Building Shalom: Justice, Love, and the Christian Life	2
THEL 232 Poverty, Wealth, and the Christian Gospel	2
Total	4

Religious Studies Concentration	Credits
THEL 340 The Nature of God	2
THEL 350 Reason and Religious Belief	2
PSY 306 Psychology of Religion	3
THEL/REL 210 or above to reach 9 hours of electives needed	9
Total	16

Students electing the comprehensive major in Theology must satisfy all normal integrative studies requirements. Students are strongly encouraged to satisfy integrative studies language requirements by taking one of the Biblical languages (Greek or Hebrew). A curriculum plan for this major is available through the Department of Biblical Studies, Theology and Philosophy.

Theology Major with Sports Ministry Concentration (pending)

BA/BS (30 hour major combined with 19-22 hour concentration)

Specific Requirements	Credits
THEL 313 Systematic Theology <i>(required for Wesleyan ordination)</i>	4
THEL 327 Church, Mission , and Culture <i>(required for Wesleyan ordination)</i>	4
THEL 220 History of Christianity <i>(required for Wesleyan ordination)</i>	4
THEL 320 Spiritual Formation <i>(required for Wesleyan ordination)</i>	4
REL 482 Senior Capstone: Seminar in Theology	2
Total	18
Bible Requirements	Credits
BIBL 221 Biblical Interpretation <i>(required for Wesleyan ordination)</i>	4
BIBL 355 Biblical Theology I	2
BIBL 356 Biblical Theology II	2

Total	8
Choose two from the following:	
REL 222 New Religious Movements I	2
REL 232 New Religious Movements II	2
REL 221 Hinduism and Buddhism	2
REL 225 Taoism and Confucianism	2
REL 231 Judaism	2
THEL 230 Building Shalom: Justice, Love, and the Christian Life	2
THEL 232 Poverty, Wealth, and the Christian Gospel	2
Total	4

Sports Ministry Concentration	
CRFM 325 Bible Study and Teaching Methods	3
CRFM 227 Sports Ministry: The Integration of Faith and Sport	4
CRFM 275 Methods of Administration of Sports Ministry	2
MIN 210 Introduction to Christian Ministries	3
CRFM 341, 342 Theological Exploration: Youth Culture I & II	2,2
MIN 410 Ministerial Field Education	3-6
Total	19 - 22

Students electing the comprehensive major in Theology must satisfy all normal integrative studies requirements. Students are strongly encouraged to satisfy integrative studies language requirements by taking one of the Biblical languages (Greek or Hebrew). A curriculum plan for this major is available through the Department of Biblical Studies, Theology and Philosophy.

Theology Major with Youth Ministries Concentration

BA/BS (30 hour major combined with 18-21 hour concentration)

Specific Requirements	Credits
THEL 313 Systematic Theology <i>(required for Wesleyan ordination)</i>	4
THEL 327 Church, Mission , and Culture <i>(required for Wesleyan ordination)</i>	4
THEL 220 History of Christianity <i>(required for Wesleyan ordination)</i>	4
THEL 320 Spiritual Formation <i>(required for Wesleyan ordination)</i>	4
REL 482 Senior Capstone: Seminar in Theology	2
Total Core	18
Bible Requirements	Credits
BIBL 221 Biblical Interpretation <i>(required for Wesleyan ordination)</i>	4
BIBL 355 Biblical Theology I	2
BIBL 356 Biblical Theology II	2
Total	8
Choose two from the following:	Credits
REL 222 New Religious Movements I	2
REL 232 New Religious Movements II	2
REL 221 Hinduism and Buddhism	2
REL 225 Taoism and Confucianism	2
REL 231 Judaism	2
THEL 230 Building Shalom: Justice, Love, and the Christian Life	2

THEL 232 Poverty, Wealth, and the Christian Gospel	2
Total	4

Youth Ministries Concentration	Credits
CRFM 350 Foundations of Youth Ministry	2
CRFM 332 Christian Formation of Youth	2
MIN 210 Introduction to Christian Ministries	3
PSY 217 Adolescence and Emerging Adulthood	2
PSY 231 Adult Development and Aging	2
CRFM 341, 342 Theological Exploration: Youth Culture I & II <i>or</i> THEL 300 Christianity & Post-Modernism	(2, 2) or (4)
MIN 410 Ministerial Field Education	3-6
Total	18-21

Students electing the comprehensive major in Theology must satisfy all normal integrative studies requirements. Students are strongly encouraged to satisfy integrative studies language requirements by taking one of the Biblical languages (Greek or Hebrew). A curriculum plan for this major is available through the Department of Biblical Studies, Theology and Philosophy.

MINORS

Bible

12 hours in Bible, numbered 200 or above.

Philosophy

12 hours.

Required Courses	Credits
<i>Choose at least one course from the following courses:</i>	

PHIL 243 Ancient Philosophy	4
PHIL 244 Medieval Philosophy	4
PHIL 245 Early Modern Philosophy	4
PHIL 246 Late Modern & Contemporary Philosophy	4
<i>Additional Required Philosophy Courses</i>	
Eight hours of Philosophy Electives	8
Minor Total	12

Religion

12-16 hours

Required Course	Credits
PHIL 350 Reason and Religious Belief	2
Total	2
Electives	Credits
<i>Select two courses from the following:</i>	4 - 6
REL 221 Hinduism and Buddhism	2
REL 231 Judaism	2
INCL/MISS 360 Introduction to Islamic Studies	4
<i>*Select additional courses from the following:</i>	6 - 8
THEL 215 Christian Apologetics	4
THEL 313 Systematic Theology	4
BIBL 355 Biblical Theology I	2

BIBL 355 Biblical Theology II	2
THEL 220 History of Christianity	4

Sports Ministry

Minimum 16, interdisciplinary

Sports ministry is a culturally relevant relational tool that helps connect the Christian faith to the sport-minded. The minor is particularly helpful for students interested in academic and vocational pursuits within local church ministries, missions, education, coaching, camping, recreation, equestrian studies, church planting and intercultural studies.

Required Courses	Credits
CRFM 325 Bible Study and Teaching Methods	3
PHED/CRFM 227 Sports Ministry: The Integration of Faith and Sport	4
PHED/CRFM 275 Methods of Administration of Sports Ministry	2
Total	9
Electives	Credits
<i>Select one course from the following:</i>	4
CRFM 341/342 Theological Explorations in Youth Cultures and Ministry I & II	2, 2
THEL 313 Systematic Theology	4
<i>*Select at least one course from the following:</i>	3 - 4
INCL XXX Intercultural course recommended by department	1-4

MISS 242 Missions and the Global Church	4
PHED 305 Sports Ministry Field Practicum **	2
PHED 306 Principles of Coaching & Sport Management	4
REC 227 Outdoor Leadership Training	4
REC 240 Administration of Organized Camps	4
CREM 341/342 <i>or</i> THEL 313 (whichever was not used in previous category)	4
*For other options, see the Director of this program.	
<i>**with approval the practicum can be fulfilled through one of the following provided the course has a sufficient sports ministry component:</i>	
CRFM 442 Internship in Christian Formation	4
MISS 311 Cross Cultural Field Experience	3-4
INCL 311 Intercultural Experience	0-4

Theology

12 hours

The theology minor provides concentrated study in Christian doctrine, apologetics, and church history.

Requirements	Credits
THEL 313 Systematic Theology	4

Theology electives above THEL 209	8
Total	12

World Religions

14 hours.

Required Courses	Credits
REL 221 Hinduism and Buddhism	2
REL 225 Taoism and Confucianism	2
REL 231 Judaism	2
REL 222 New Religious Movements I	2
REL 232 New Religious Movements II	2
INCL/MISS 360 Introduction to Islamic Foundations	4
Total	14

PRE-PROFESSIONAL

Pre-Seminary Interest

Consult the Area Associate Dean of Biblical Studies, Theology and Philosophy, Michael Walters

For those who expect to attend seminary after college, The Association of Theological Schools offers the following guidelines:

- Students should develop to a satisfactory degree their ability to think independently, to communicate effectively, and to do research.
- Students should possess a general knowledge of past and present culture through study in the humanities and the natural and social sciences.
- The biblical languages are useful tools to acquire in the pre-seminary period. Latin may be helpful, especially in some traditions. Modern languages such as German, French, and Spanish are also valuable.

Department of Biology [view dept. website](#)

Aaron M. Sullivan, chair | Mark E. Yuly, Interim Associate Dean

585.567.9280

Overview

General Information: The faculty members of the Houghton College Biology Department enthusiastically engage students as they explore together the living world of God's creation, from the sub-cellular level to the individual organism to populations and entire ecosystems. Building on the foundation of the College's cross-disciplinary, general education curriculum, biology majors learn to integrate their Christian faith with scientific principles and are well prepared to pursue a broad range of vocational callings including applied health careers, bioethics, education, environmental studies, health professions, industry, international development, policy making, research and many others. Houghton College has a rich and long-standing history in preparing students to enter these fields.

Interested in real-world opportunities? Why not join other Houghton students working with a faculty member on research to publish in a scientific journal? Perhaps you would like to enroll in our pre-medical practicum, in which students live with a Houghton alumnus who is also a physician in order to gain medical "shadowing" time. Alternatively, join the many Houghton students who serve as Emergency Medical Technicians with the Houghton volunteer fire department or travel to a developing country to take *Foundations of Health Development*. Many of our students also participate in Houghton-faculty led programs in Tanzania, where they can take a course in Wildlife Behavior in East Africa, or travel to Alaska for the Ecology of Alaska course.

Pre-Health Professions: (Biology BS major) Graduates with a BS in Biology primarily enter graduate institutions, some aspect of the health professions (allopathic medicine, osteopathic medicine, podiatry, optometry, dentistry, medical technology, physical therapy), veterinary medicine or environmental science.

Through Houghton's curricula in Integrative Studies and the sciences, interested students will receive excellent pre-professional preparation for a career in a wide variety of allied health fields, including medicine (physician, nurse, physician assistant, nurse practitioner) and dentistry, as well as physical therapy, chiropractic and veterinary medicine. Many students desiring to pursue these types of further training often major in biology or chemistry. However, students may choose to major in any field of study in which they have a strong interest, being careful to fulfill any necessary science requirements as well. In fact, many health profession schools encourage students to major in fields outside of the sciences. In any case, students should pay close attention to the specific admission requirements of schools to which they intend to apply. **Faculty Advisors:** Dr. James Wolfe (pre-Pharmacy D): Dr. Jamie Potter (pre-medical, pre-osteopathy, pre-dental, pre-optometry, pre-chiropractic, pre-nursing): Dr. Aaron M. Sullivan (pre-veterinary, pre-physical therapy, pre-physician assistant)

Biology Education: (Biology BA major) Graduates from this program primarily enter the field of science teaching in secondary schools. Students interested in working toward certification to teach Biology at the middle and high school levels can do so by double-majoring in Biology and

Adolescence Education (ADE). Please see the Education Department section of this catalog for details. For further information on biology, contact Dr. Aaron Sullivan.

MAJORS

- **Biochemistry**
- **Biology BA**
- **Biology BS**
- **Biology with Environmental Emphasis BA**
- **Biology with Environmental Emphasis BS**
- **Pre-Pharmacy D (with University of Buffalo)**

MINORS

- **Biology**
- **Environmental Stewardship**
- **Forestry minor**

PRE-PROFESSIONAL

- **Pre-medical Interest**
- **Pre-nursing Interest**
- **Pre-nursing Interest with Intercultural Studies**
- **Pre-Physical Therapy Track**
- **Pre-Veterinary Medicine Interest**

CONCENTRATION

- **Forestry emphasis within the Biology major with an AAS in Forest Technology**

FACULTY

David A. Brubaker

Eli J. Knapp

Jamie L. Potter

Ransom Poythress

Aaron M. Sullivan

Rebecca Williams

James M. Wolfe

MAJORS

Biochemistry

BA/BS (31 hours in major; 16 prerequisites; 19 -24 co-requisites)

Biochemistry is an excellent path to entering one of the health professions or following a career in biochemical research. A Biochemistry major at Houghton College can lead to such exciting careers as bio-medical researcher, medical doctor, nurse, pharmacist or pharmacologist, nutritionist, physical therapist, or food chemist, to name a few. (For a full description of Pre-Health Professions, see that heading in this catalog, listed under “Biology Department.”) A major in Biochemistry at Houghton College enables a student to learn, in a context of faith, the normal or abnormal paths that one’s body may take, and to understand the ways in which nutrition and pharmaceuticals can best prevent or correct damage to one’s body. Because the Biochemistry major at Houghton College contains a significant liberal arts component as well as its science component, the student may

choose, upon graduation, to receive either the Bachelor of Arts or the Bachelor of Science degree in Biochemistry.

Prerequisites	Credits
BIOL 151 General Biology: Organisms to Ecosystems	4
BIOL 152 General Biology: Cellular Biology and Genetics	4
CHEM 151 General Chemistry I	4
CHEM 152 General Chemistry II	4
Total	16
Co-requisites	Credits
CSCI 211 Programming I	4
MATH 181 Calculus I OR	4
MATH 170/171 Calculus I wit Pre-calculus A AND B	4, 4
PHYS 151 General Physics I	4
PHYS 152 General Physics II	4
PSY 309 Statistics	3-4
Total	19 - 24
Required Core Courses	Credits

CHEM 241 Organic Chemistry I	4
CHEM 242 Organic Chemistry II	4
BIOL 251 Genetics	4
BIOL 370 Molecular and Cell Biology	4
CHEM 332 Biochemistry	3
CHEM 334 Bioanalytical Lab	1
CHEM 268 Special Topics in Chemistry	2
CHEM 352 Physical Principles	3
BIOCHM 480 Capstone: Seminar in Biochemistry	1
BIOL xxx Elective	4
STEM 371 Career Seminar	1
Total	31

Research strongly encouraged

Biology BA

BA (26 hours in major: 8 prerequisites; 8 co-requisites)

Prerequisite Courses	Credits
BIOL 151 General Biology: Organisms to Ecosystems	4
BIOL 152 General Biology: Cellular Biology and Genetics	4

Note: <i>unless a grade of C- is earned in the lecture component of both BIOL 151 and BIOL 152 students must enroll concurrently in BIOL 151 or BIOL 152 if also enrolling in 200 level or higher biology courses.</i>	
Total	8
Co-requisites	Credits
CHEM 151 General Chemistry I	4
CHEM 152 General Chemistry II	4
Total	8
Required Courses	Credits
BIOL 251 Genetics	4
BIOL 482 Senior Capstone: Senior Seminar	2
BIOL xxx Electives	20
Total	26

Biology BS

BS (26 hours in major; 8 prerequisites; 28-32 co-requisites)

Prerequisite Courses	Credits
BIOL 151 General Biology: Organisms to Ecosystems	4
BIOL 152 General Biology: Cellular Biology and Genetics	4
Note: <i>unless a grade of C- is earned in the lecture component of both BIOL 151 and BIOL 152 students must enroll concurrently in BIOL 151 or BIOL 152 if also enrolling in 200 level or higher biology courses.</i>	
Total	8
Co-requisite Courses	Credits
CHEM 151 General Chemistry I	4

CHEM 152 General Chemistry II	4
CHEM 241 Organic Chemistry I	4
CHEM 242 Organic Chemistry II	4
PHYS 151 General Physics I	4
PHYS 152 General Physics II	4
MATH 181 Calculus I OR	4
MATH 170/171 Calculus I with Pre-calculus A AND B	4, 4
Total	28-32
Required Courses	Credits
BIOL 251 Genetics	4
BIOL 322 General Ecology	4
Organismal Biology (<i>Choose one course from the following</i>)	4
BIOL 207 Wildlife Behavior in East Africa	
BIOL 295 Herpetology	
BIOL 301 Field Botany	
BIOL 315 Marine Biology	
BIOL 336 Animal Behavior	
BIOL 395 Ornithology	
Additional Required Courses	Credits
BIOL 482 Senior Seminar	2

BIOL xxx Electives	12
Experiential Biology (Select one of the following courses) [Note: credit hours towards the major are only earned if fulfilling this requirement with BIOL 394 or an approved course at Au Sable]	
BIOL 394 Collaborative Research	
INCL 348 Foundations of Health Development	
PRPR 202A Pre-Medical/Pre-Dental Practicum	
NSF-funded Summer Science Internship	
Field Course at the Au Sable Institute of Environmental Studies	
Completion of the EMT-basic course provided by Allegany County Emergency Services	
STEM 371 Career Seminar	1
Major Total	27

Biology with Environmental Emphasis BA

BA (26 hours in major; 8 hours in prerequisites; 16 hours in co-requisites)

The BA in Environmental Biology at Houghton takes advantage of the college's location in the Allegheny Plateau (ranging in elevation from 1000 to 2500 feet), with access to forest, river, and lake ecosystems, and the Atlantic Ocean. In addition, Houghton's 1300-acre campus has forest and field areas for study. The BA Environmental Biology major prepares students for further graduate work in environmental biology. Graduates have gone on to obtain master and doctoral degrees for careers in environmental education, forestry, wildlife biology, soil and water conservation, and environmental analysis. The BA emphasizes Christian stewardship of Creation as well as environmental awareness and analysis. Field-oriented courses complement a strong biology background, including a field experience (a field-based course, a course at AuSable Institute of Environmental Studies (see Off-Campus Study options, a center for Christian environmental stewardship, or a field-based research experience or internship). Students can take the New York

State civil service exam for application as a conservation biologist to the NYS Department of Environmental Conservation, according to the following designations.

- **Biologist (wildlife)** Bachelor's or higher-level degree including or supplemented by 30 semester credit hours in the biological sciences. These 30 semester credit hours must include 18 specialized semester credit hours in wildlife courses that address the study, monitoring, modeling, management, interrelationships, or characteristics of wild animals and their habitats. See the following website. <http://www.dec.ny.gov/about/45991.html>
- **Biologist (ecology)** Bachelor's or higher-level degree including or supplemented by 30 semester credit hours in the biological sciences. These 30 semester credit hours must include 18 specialized semester credit hours in field biology or ecology courses such as fishery or wildlife science, fishery or wildlife management, environmental impact analysis, limnology, toxicology, plant or animal taxonomy, wetland resources, wildlife population dynamics, zoology, or botany or any of their subspecialties. See following website. <http://www.dec.ny.gov/about/45987.html>

Prerequisite Courses	Credits
BIOL 151 General Biology: Organisms to Ecosystems	4
BIOL 152 General Biology: Cellular Biology and Genetics	4
Note: unless a grade of C- is earned in the lecture component of both BIOL 151 and BIOL 152 students must enroll concurrently in BIOL 151 or BIOL 152 if also enrolling in 200 level or	

<i>higher biology courses.</i>	
Total	8
Co-requisites	Credits
CHEM 151 General Chemistry I	4
CHEM 152 General Chemistry II	4
ESCI 101 Physical Geology	4
Total	12
Required Major Courses	Credits
BIOL 251 Genetics	4

BIOL 301 Field Botany	4
BIOL 322 General Ecology	4
BIOL 482 Senior Capstone: Senior Seminar	2
BIOL xxx At least one course with zoological emphasis	4
<i>Field Experience (Choose from list below)</i>	
Biology course(s) at the AuSable Institute of Environmental Studies (max. 8 hours)	4 or 8
field course at another accredited institution	
significant intern or work experience	

Total	26
Recommended Courses	Credits
REC 401 National Resource Management	4
SOC 307 <i>and</i> 308 <i>or</i> SOC 309 Statistics	3 or 4

Biology with Environmental Emphasis BS

BS (27 hours in major; 8 hours in prerequisites; 36 - 40 hours in co-requisites)

The BS in Environmental Biology at Houghton takes advantage of the college's location in the Allegheny Plateau (ranging in elevation from 1000 to 2500 feet), with access to forest, river, and lake ecosystems, and the Atlantic Ocean. In addition, Houghton's 1300-acre campus has forest and field areas for study. The BS Environmental Biology major prepares students for further graduate work in environmental biology. Graduates have gone on to obtain master and doctoral degrees for careers in environmental education, forestry, wildlife biology, soil and water conservation, and environmental analysis. The BS emphasizes Christian stewardship of Creation as well as environmental awareness and analysis. Field-oriented courses complement a strong biology background, including a field experience (a field-based course, a course at AuSable Institute of Environmental Studies (see Off-Campus Study options, a center for Christian environmental stewardship, or a field-based research experience or internship). Students can take the New York State civil service exam for application as a conservation biologist to the NYS Department of Environmental Conservation, according to the following designations.

- **Biologist (wildlife)** Bachelor's or higher-level degree including or supplemented by 30 semester credit hours in the biological sciences. These 30 semester credit hours must include 18 specialized semester credit hours in wildlife courses that address the study, monitoring, modeling, management, interrelationships, or characteristics of wild animals and their habitats. See the following website. <http://www.dec.ny.gov/about/45991.html>
- **Biologist (ecology)** Bachelor's or higher-level degree including or supplemented by 30 semester credit hours in the biological sciences. These 30 semester credit hours must include 18 specialized semester credit hours in field biology or ecology courses such as fishery or wildlife science, fishery or wildlife management, environmental impact analysis, limnology, toxicology, plant or animal taxonomy, wetland resources, wildlife population dynamics, zoology, or botany or any of their subspecialties. See following website. <http://www.dec.ny.gov/about/45987.html>

Prerequisite Courses	Credits
BIOL 151 General Biology: Organisms to Ecosystems	4
BIOL 152 General Biology: Cellular Biology and Genetics	4
Note: unless a grade of C- is earned in the lecture component of both BIOL 151 and BIOL 152 students must enroll concurrently in BIOL 151 or BIOL 152 if also enrolling in 200 level or higher biology courses.	
Total	8
Co-requisites	Credits
CHEM 151 General Chemistry I	4
CHEM 152 General Chemistry II	4
ESCI 101 Physical Geology	4

CHEM 241 Organic Chemistry I	4
CHEM 242 Organic Chemistry II	4
PHYS 151 General Physics I	4
PHYS 152 General Physics II	4
MATH 181 Calculus I OR	4
MATH 170/171 Calculus I with Pre-Calculus A AND B	4, 4
Total	32 - 36
Required Major Courses	
BIOL 251 Genetics	4
BIOL 301 Field Botany	4
BIOL 322 General Ecology	4
BIOL 482 Senior Capstone: Senior Seminar	2
BIOL xxx At least one course with zoological emphasis	4
<i>Field Experience (Choose from list below)</i>	
Biology course(s) at the AuSable Institute of Environmental Studies (max. 8 hours)	4 or 8

field course at another accredited institution	4
STEM 371 Career Seminar	1
significant intern or work experience	
Total	27
Recommended Courses	Credits
REC 401 National Resource Management	4
SOC 309 Statistics	3 or 4

Pre-Pharmacy D (with University of Buffalo)

Biology: BA (26 hours in major; 8 prerequisites; 8 co-requisites; plus prerequisites for admission to UB PharmD program)

Prerequisite Courses	Credits
BIOL 151 General Biology: Organisms to Ecosystems	4
BIOL 152 General Biology: Cellular Biology and Genetics	4
Total	8
Co-requisites	Credits
CHEM 151 General Chemistry I	4
CHEM 152 General Chemistry II	4
Total	8
Required Courses	Credits

BIOL 217, 218 Human Anatomy and Physiology	4, 4
BIOL 242 Microbiology	4
BIOL 251 Genetics	4
BIOL 482 Senior Capstone: Senior Seminar	2
BIOL xxx Electives	8 <i>(to be met at UB)</i>
UB prerequisites for admission to UB PharmD Program	Credits
<i>See UB's Catalog for their prerequisites for admission</i>	

The PharmD curriculum is a 3-year (Houghton) plus a 4-year (UB) path and acceptance to the University of Buffalo is not guaranteed. For further information on the pre-PharmD opportunity contact Dr. James Wolfe.

MINORS

Biology

12 hours above BIOL 151, 152

Environmental Stewardship

12 - 13 hours

The environmental stewardship minor provides background for students who plan careers that intersect with environmental issues. The minor is supradisciplinary.

Required Courses	Credits
BIOL 215 Local Flora and Vegetation	3
BIOL 475 Environmental Stewardship Senior Seminar	1
ESCI xxx (eg. ESCI 101 Physical Geology)	4
REC 401 Natural Resource Management	4
Total	12

Recommended courses: BIOL 105 Conservation Biology (4); an internship or independent study with environmental management is strongly recommended (1-2).

Forestry minor

Courses taken during fall semester at SUNY-ESF Ranger School (22 credits)

Forestry: (emphasis within the Biology major, minor) Faculty: faculty from SUNY-ESF Ranger School. Because deforestation and other human activities affecting forested areas have significant ecological, aesthetic, and economic ramifications, gaining insight into our forest resources can play an important role in environmental stewardship, and may be desirable for students intending to serve with mission organizations. The forestry program at Houghton College, which enjoys a largely forested campus, offers interested students an opportunity to develop a deeper understanding of these issues through a cooperative agreement partnership with the State University of New York--College of Environmental Science and Forestry (SUNY-ESF). Both a forestry minor and a forestry emphasis within a biology major are offered through coursework taken at the SUNY-ESF Ranger School (est. 1912) based at Wanakena in the Adirondack Park. The Ranger School offers a rigorous 46 credit Forestry Technology program over an extended school year. Houghton students can participate for a fall semester (forestry minor) or for an entire academic year (forestry emphasis within a biology major), depending on their educational and career goals. Those participating for the whole year also earn an A.A.S from SUNY –ESF.

Note: The program is not limited to biology majors. Non-Biology students who have the necessary prerequisites may also opt to take the fall courses (earning a forestry minor) or the whole year program (earning a forestry minor, biology minor, and A.A.S degree in Forest Technology.)

SUNY-ESF Ranger School Required Prerequisites (courses taken at Houghton College - 32 credits)	Credits
ECON 201 Introduction to Economics	2
ECON 210 Principles of Microeconomics <i>or</i> ECON 211 Principles of Macroeconomics	2
BIOL 151 General Biology: Organisms to Ecosystems	4
BIOL, CHEM or PHYS - Science course with lab	4
MATH 181 Calculus 1	4

English with focus on Writing (ex. Writing in Liberal Arts)	6
Electives (<i>Suggested areas: psychology, sociology, computer science, public speaking</i>)	10
Total	32
Forestry Minor Courses taken during fall semester at SUNY-ESF Ranger School - 14 credits transfer to Houghton College for minor.	
	Credits
Forest Ecology (<i>This course, when counted for the minor, may NOT also be counted toward a biology major.</i>)	4
Dendrology	3
Introduction to Natural Resources Measurements	5
Remote Sensing and Geographic Information Technology	3
Eight hours of additional coursework is included in the program but does NOT transfer back to Houghton.	

PRE-PROFESSIONAL

Pre-medical Interest

Allopathic (awarding an M.D.) and osteopathic (awarding a D.O.) medical schools are very competitive, receiving far more applications each year than the limited number of available openings. Admission committees seek well rounded individuals with outstanding academic achievement at the undergraduate level. Ensuring these two qualities is vital if an applicant is to receive serious consideration for admission.

Students interested in pursuing medical training in graduate school should begin early seeking out opportunities to demonstrate a commitment to community service and to gain practical experience in the medical field. An example of the opportunities offered at Houghton College for students to gain such experiences in the context of elective coursework includes a semester long course in Medical Ethics (which offers a service learning experience in a health related venue).

The two academic benchmarks used by medical schools in screening applicants are the Medical School Application Test (MCAT) and college GPA. Strong performance in both of these is

necessary in order to maximize one's chance of being accepted to medical school. Students considering medical school should expect to work diligently from the very beginning of their college experience in order to assure their best preparation for the MCAT. The MCAT is usually taken during the spring of the junior year to support an application for medical school matriculation in the fall following college graduation. Thus, those who intend to follow this timeline for application to medical school should complete the courses needed for MCAT preparation (one year of General Biology, one year of General Chemistry followed by one year of Organic Chemistry, one semester of Calculus followed by one year of Physics) by the end of their junior year. For specific course information please refer to the course descriptions in the appropriate departmental section of the catalog.

For further information about preparing for medical school, contact Dr. Jamie Potter at

Pre-nursing Interest

Prerequisites for institutions offering BSN, accelerated BSN, MSN, or accelerated MSN can vary widely. Students need to investigate those requirements.

Nursing is one of the largest and fastest growing professions in our nation. Typical paths to registered nursing include completion of a Bachelor of Science in Nursing (BSN) degree or, for clinical nurse specialists, nurse anesthetists, nurse-midwives and nurse practitioners, a Masters of Science in Nursing (MSN). Houghton students interested in nursing typically pursue one of three paths: a) enroll in an accelerated Bachelor of Nursing (BSN) degree after completion of a BA or BS in another field at Houghton College, b) enroll in an accelerated Masters of Nursing degree after completion of a BA or BS in another field at Houghton College, or, c) transfer to a Bachelor of Nursing (BSN) degree following completion of two years at Houghton College. Most students interested in pursuing nursing major in biology or chemistry, though many other majors are possible. Where a student takes a major other than biology or chemistry, the prerequisite science, psychology and math courses need to be included. An advantage to studying at Houghton College prior to pursuing the nursing degree is the availability of Intercultural Studies courses. These classes, including those related to public health, prepare students for global service opportunities in missions, NGO's, public health organizations and educational institutions. For further information contact Dr. Jamie Potter, at jamie.potter@houghton.edu.

The prerequisites for BSN, accelerated BSN and MSN or accelerated MSN degrees can vary widely. It is therefore highly recommended that the student interested in pursuing nursing following Houghton, work with Professor Jamie Potter, during their first and second years at Houghton College to review the specific requirements at selected colleges and universities.

Students planning on transferring to a BSN program or an accelerated BSN program typically complete the following courses:

Typical Course Requirements	Credits
BIOL 217 and BIOL 218 Human Anatomy and Physiology	4, 4

CHEM 151 and CHEM 152 General Chemistry	4, 4
BIOL 242 Microbiology	4
CHEM 187 and CHEM 188 Nutrition	4
SOC 307 and SOC 308 or SOC 309 or MATH 131 Statistics	3 or 4
PSY 213 Developmental Psychology	4

Other courses that may be required by specific BSN or accelerated nursing degrees (either BSN or MSN) include, introduction to psychology, pathophysiology, theology/religious studies, medical ethics, human growth and development, sociology and pharmacology.

Pre-nursing Interest with Intercultural Studies

Additional Intercultural Studies courses with pre-nursing courses

Students interested in the nursing profession in global service careers may want to consider taking the following courses in Intercultural Studies in addition to the courses suggested for those interested in pursuing nursing following their work at Houghton.

Typical Course Requirements	Credits
BIOL 217 and BIOL 218 Human Anatomy and Physiology	4, 4
CHEM 151 and CHEM 152 General Chemistry	4, 4
BIOL 242 Microbiology	4
CHEM 187 and CHEM 188 Nutrition	4
PSY 307 and PSY 308 or PSY 309 or MATH 131 Statistics	3 or 4
PSY 213 Developmental Psychology	4

Intercultural Studies Courses	Credits
INCL 201 Introduction to Global Issues	4
INCL 243 Cultural Anthropology	4
INCL 310 Intercultural Competencies	4
INCL 311 Intercultural Experience	0 - 4
Note: Completion of these four Intercultural Studies courses would constitute a minor in Intercultural Studies.	
Other helpful courses for students interested in nursing and missions or related international careers	Credits
INCL 348 Foundations of Health Development	4
MISS 241 History of the Global Christian Movement	4
MISS 242 Missions and the Global Church	4
MISS 341 Biblical and Theological Foundations of Mission	4
Various Bible Courses	
Note: Completion of these four courses would constitute a minor in Missions.	

Pre-Physical Therapy Track

BA Biology (30 hours in major; 8 in prerequisites; 20-24 in co-requisites; 14.5 - 16 hours in minor)

Prerequisites	Credits
----------------------	----------------

BIOL 151 General Biology: Organisms to Ecosystems	4
BIOL 152 General Biology: Cellular Biology and Genetics	4
Total	8
Co-requisites	Credits
CHEM 151/152 General Chemistry I and II	4, 4
PHYS 151/152 General Physics I and II	4, 4
MATH 181 Calculus I OR	4
MATH 170/171 Calculus I with Pre-calculus A AND B	4, 4
Total	20-24
Required Major Courses	Credits
BIOL 217, 218 Human Anatomy and Physiology I & II	4, 4
BIOL 251 Genetics	4
BIOL 482 Senior Capstone: Senior Seminar	2
PHED 330 Physiology of Exercise	4
PHED 341 Kinesiology	4
BIOL xxx Electives	8
Total	30
Pre-physical Therapy/Athletic Training Minor Courses	Credits
PHED 246 Care, Prevention & Management of Athletic Injuries	2
PHED 308 First Aid and Safety (2) or PHED 108 First Aid/CPR/AED (.5)	2 or 0.5

PHED 247 Recognition and Evaluation of Athletic Injuries	4
PHED 347 Therapeutic Modalities	2
PHED 348 Therapeutic Exercise Management of Injuries	2
PHED 281 Pre-PT Field Experience I	2
PHED 381 Pre-PT Field Experience II	2
Total	14.5 - 16

Pre-physical Therapy: A pre-physical therapy track is available for students who are interested in pursuing graduate studies in physical therapy. A number of courses in physical education/athletic training are required for this track. For further information on the pre-physical therapy program contact Dr. Aaron Sullivan.

Pre-Veterinary Medicine Interest

Houghton provides a broad education, while offering those courses specified by veterinary medical colleges for admission. Veterinary colleges stress the desirability of a well-rounded post-secondary education. They accept students without regard to their pre-professional major and sometimes after three years or 90 hours of credit. However, most applicants major in biology or chemistry and, on the average, have more than 100 hours of pre-professional training. Because there are relatively few veterinary colleges, the number of students accepted each year into veterinary curricula is small. Therefore, excellence of academic achievement and personal character, as well as familiarity with the profession, is necessary for admission. For further information contact Dr. Aaron Sullivan.

Department of Business and Economics

[view dept. website](#)

Kenneth J. Bates, chair | Paul D. Young, Associate Dean

585.567.9440 | business@houghton.edu

Overview

Mission: To develop the character and intellect of our students and to equip them with skills to be Christ-like scholar-servants who will steward the resources of for-profit, not-for-profit, and service organizations.

MAJORS

- Accounting
- Business Administration

MINORS

- Accounting
- Business Administration
- Economics
- Management

PRE-PROFESSIONAL

- 4 + 1 Accelerated MBA

FACULTY

Kenneth J. Bates

Robert A. Black

Naomi L. Christensen J. Thomas Fuoco

Pil Joon Kim

Daniel C. Minche

MAJORS

Accounting

BS (51-52 hours in the major; 12 in Co-requisites)

Co-requisites	Credits
BADM 45 Spreadsheet competency	0
ECON 201 Intro to Economics	2
ACCT 211 Financial Accounting	3
ACCT 212 Managerial Accounting	3
ECON 210 Principles of Microeconomics	2
ECON 211 Principles of Macroeconomics	2
Total	12
Major Required Courses (<i>includes minor in Business Administration</i>)	Credits

BADM 212 Principles of Management	4
BADM 213 Business Law I <i>or</i> BADM 214 Business Law II	4
BADM 218 Marketing Principles	4
BADM 301 Business Communication	2
BADM 302 Investment Management	4
BADM 309 Statistics	3-4
ACCT 311 Intermediate Accounting I	3
ACCT 312 Intermediate Accounting II	3
ACCT 314 Cost Accounting	3
ACCT 315 Auditing	4
ACCT 316 Federal Income Tax	4
BADM 406 Financial Management	4
ACCT 418 Advanced Accounting	3
ACCT 421 Internship	2
BADM 481 Senior Capstone: Business Strategy and Policy	4
Total	51-52

Business Administration

BS (45-46 hours plus 6 in pre-co-requisites).

Pre/co-requisites	Credits
BADM 45 Spreadsheet Competency	0

ECON 201 Intro to Economics	2
ECON 210 Principles of Microeconomics	2
ECON 211 Principles of Macroeconomics	2
Total	6
Major Core Courses	Credits
ACCT 211 Financial Accounting	3
ACCT 212 Managerial Accounting	3
BADM 212 Principles of Management	4
BADM 218 Marketing Principles	4
BADM 213 Business Law I <i>or</i> BADM 214 Business Law II	4
BADM 309 Statistics	3-4
ECON xxx Economics elective	2
BADM 406 Financial Management	4
BADM 421 Internship in Business	2
BADM 481 Business Strategy and Policy (Senior Capstone)	4
Total	33 - 34
Elective Business courses: 12 hours from the courses below.	Credits
<i>Elective hours may be used to develop a focus in any of the following six areas by taking 8 hours in one area.</i>	
Economics:	
ECON 301 Money, Banking and Financial Markets	3

ECON 310 Intermediate Microeconomics	1
ECON 311 Intermediate Macroeconomics	1
ECON 313 America Economic History I (Colonial Era to 1865)	2
ECON 314 American Economic History II (from 1865 to present)	2
ECON 315 Economics of Organization and Strategy	2
ECON 350 Economic Freedom	2
ECON xxx Economics Elective	2
Management:	
BADM 301 Business Communication	2
BADM 303 Entrepreneurship	2
BADM 314 Human Resources Management**	4
BADM 317 Management Information Systems	4
BADM 320 Leadership Development	4
BADM 330 Operations Management	4
BADM 414 Advanced Human Resources Management	1-4
Marketing:	
BADM 301 Business Communication	2
BADM 319 Marketing Research	2
BADM 324 Advertising and Public Relations Principles	4
BADM 335 Integrated Marketing Communication	2

BADM 340 eCommerce	2
Finance:	
ECON 301 Money, Banking and Financial Markets	3
BADM 302 Investment Management	4
BADM 431 Security Analysis and Portfolio Management	1-4
International Business:	
IBI 331, 339, 350, 390 International Business Institute	12
ECON 212 International Economics	2
BADM 313 International Business	2
BADM 340 eCommerce	2
an approved cross-cultural experience	2
International Economics:	
ECON 212 International Economics	2
ECON 237 Comparative Economics Systems	2
BADM 313 International Business	2
ECON 350 Economic Freedom	2
an approved cross-cultural experience	2
Total	12
<i>**required for focus</i>	

Internships are required of all students majoring in business. Practical experience provides an excellent opportunity to link the theory of the classroom with our work and practice. In addition, practical application may provide learning opportunities that cannot be duplicated in the classroom.

For this reason all business majors are required to graduate with a minimum of two hours but not more than six hours of internship experience.

Students meet the internship requirement through some type of work done for large or small businesses both for-profit and not-for-profit. These experiences may also occur in conjunction with other coursework taken during the fall or spring semester, during Mayterm or the summer. In all cases the emphasis of the work, which makes it eligible for credit, must be on what is learned through the experience.

All internship experiences must be pre-certified and follow department guidelines to meet the internship requirements. Students wishing to earn credit-hours for internships conducted over the summer will pay normal summer tuition rates. Students may also apply up to four (4) unused credit-hours purchased in the preceding school year. One may apply to have an internship meet the requirement for an internship without earning credit but the experience must still be pre-certified by the department designated internship supervisor and meet all other internship requirements.

Select courses may fulfill the internship requirement if the focus is on practical application of material that has been studied and involves activity similar to that in the workplace. Examples of courses that do this include:

BADM 431 - *Security Analysis & Portfolio Management* – Students in the course are members of the Student Investment Group and manage an equity portfolio on behalf of Houghton College. The students analyze stocks and make buy/sell decisions under faculty supervision.

ACCT 323 – *Tax Practicum* – Students prepare tax returns through the VITA (Volunteer Income Tax Assistance) Program of the Internal Revenue Service.

BADM 410 – *Free Enterprise and Value Creation* – This select group of students meets once a week in a collaborative workshop growing and managing on-campus businesses under the umbrella of *Houghton Student Enterprises*.

These courses may be taken multiple semesters to meet the two hour internship minimum.

Other courses may meet the requirement if their primary focus is the practical application. Examples are the ST: *Field Audit* conducted for SIL/Wycliffe in Ivory Coast, Thailand, and Cameroon. As illustrated by these courses, in order for any course to meet the internship requirement the intent of the course must be service learning through the application of principles learned in the classroom. Courses with a hands-on component or service learning project are encouraged in the curriculum but they do not meet the internship requirement.

PRE-PROFESSIONAL

4 + 1 Accelerated MBA

Five Years, Two Degrees.

Houghton has established agreements with selected graduate schools whereby qualified students who have earned a Bachelor of Science degree in business can accelerate their MBA degree. Students can waive certain MBA foundation courses, allowing them to complete an MBA in one year. Depending on the school, a grade of “B” or better in the designated undergraduate courses is

needed to waive graduate level coursework. The courses must also be no older than five years upon matriculation into the MBA degree. Students can consult with their advisor to obtain information about the courses to select and specific requirements of each graduate program.

Houghton currently has 4+1 agreements with Alfred University, Clarkson University, Niagara University, Rochester Institute of Technology, and St. Bonaventure University.

MINORS

Accounting

18 hours

Required Courses	Credits
ACCT 211 Financial Accounting	3
ACCT 212 Managerial Accounting	3
ACCT 311 Intermediate Accounting I	3
ACCT 312 Intermediate Accounting II	3
Accounting electives	6
Total	18

Business Administration

15 hours

Required Courses	Credits
ECON 201 Introduction to Economics	2
ACCT 211 Financial Accounting	3
BADM 212 Principles of Management	4
Business courses numbered 200 or above (<i>except BADM 307, 308 and 309</i>)	6
Total	15

Economics

14 hours

Mission: To develop a student's ability to think clearly about economic cause and effect and to apply economic theories, models, concepts, and analytical methods to real-world problems with a view toward equipping them to serve in fields such as management, finance, international relations, government, law, education, and history. Economics courses at Houghton intentionally consider a Christian world view and its interaction with economic concepts, methods, and policies.

Economic theory provides essential background for careers in business, law, politics, teaching, and all areas of private and public administration.

Required Courses	Credits
ECON 201 Introduction to Economics	2
ECON 210 Principles of Microeconomics	2
ECON 211 Principles of Macroeconomics	2
Additional hours from ECON courses numbered 200 or above	8
Total	14

Management

16 hours

Required Courses	Credits
BADM 212 Principles of Management	4
BADM 314 Human Resources Management	4
BADM 202 Accounting and Finance for Non-financial Managers <i>OR</i>	(2)
ACCT Financial Accounting	(3)
Total	10-11
Additional hours selected from following courses:	Credits

BADM 301 Business Communication	2
BADM 303 Entrepreneurship	2
BADM 320 Leadership Development	4
Total additional hours	6
Total minor hours	16

A management minor provides students from various majors with some of the background and expertise they may need for supervisory and administrative roles in a variety of organizations. In particular, the minor may prove helpful to those assuming duties in church, parachurch and other service organizations.

Department of Chapel at CrossPoint

Overview

The Cooperative program in Christian ministries is accomplished in partnership with The Chapel at Crosspoint, located in Getzville, New York. Minimally, this is a two-year program which leads to the associate of applied science degree. The course of study requires a total of 60 hours and provides a strong Bible-centered preparation for Christian service in the church or mission field.

All courses in the major, with the exception of Church History, are conducted on the Getzville campus. Integrative Studies requirements can be completed through the Houghton in Buffalo A.A. program or through Houghton College online courses.

The cooperative program curriculum consists of 21 hours in integrative studies requirements, including a 3 hours church internship, 24 hours in required ministry courses, with a 12-hour concentration in Bible..

MAJORS

- **Christian Formation, AAS**

FACULTY

Jonathan Drake

Deone Drake

David Drake

Gerald Gillis

Kim Holet

Ryan Kozey

Daryl Largis

Christian Formation, AAS

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All courses in the major, with the exception of Church History, are conducted on the Getzville campus. Integrative Studies requirements can be completed through the Houghton in Buffalo A.A. program or through Houghton College online courses.

The cooperative program curriculum consists of 21 hours in integrative studies requirements, including a 3 hours church internship, 24 hours in required ministry courses, with a 12-hour concentration in Bible..

Integrative Studies Required Courses	Credits
WRIT 101 Writing in the Liberal Arts	3
Math or Science	3
PHIL 202 Metaphysics, Morality, and Mind	3
ENGL 202 Literary Voices	3
<i>Nine additional hours in Integrative Studies to total 24 hours (chosen from: Art, Communications, History, Music, Political Science, Psychology, or Sociology)</i>	9
Total	21

Major Required Courses	Credits
CMIN 193 Spiritual Formation	3
CMIN 197 Renovation Thought: Church and Mission	3
BIBL 198 Studying and Teaching the Bible	3
CMIN 196 Christian Doctrine	3

CMIN 250 Ministry Leadership	3
CMIN 256 Church History	3
CMIN 289 Internship	3
<i>Six additional hours chosen from: Pastoral Counseling; Marriage and Family Counseling; or Special Topics</i>	6
Total Major Requirements	27

Bible Concentration	Credits
BIBL 199 Old Testament Bible I	3
BIBL 210 Old Testament Bible II	3
BIBL 193 New Testament Bible I	3
BIBL 215 New Testament Bible II	3

Department of Chemistry [view dept. website](#)

Karen E. Torraca, chair | Mark E. Yuly, Interim Associate Dean

585.567.9280

Overview

Majoring in chemistry at Houghton College is a great way to prepare for a career in one of the health professions or for a career in chemistry! Our alumni include medical doctors (allopathic MD, osteopathic DO), optometry doctors (OD), podiatrists (DPM), chiropractic doctors (DC), medical missionaries, nurses, physicians' assistants, dentists, veterinarians, clinical chemists, medical technologists, physical therapists, and nutritionists. In addition, our graduates have become research chemists, forensic scientists, pharmaceutical researchers, medicinal chemists, environmental analysts, science writers, college professors, high-school teachers and technology managers and executives, among other professionals. Chemistry students interested in nursing have earned a Houghton undergraduate chemistry degree, and then entered an advanced accelerated nursing curriculum to complete an additional degree in fewer than two more years. (For

more information on the Pre-Health Professions, see that section of this catalog under “Biology Department.”)

MAJORS

- **Biochemistry**
- **Chemistry (BA)**
- **Chemistry (BS)**

MINORS

- **Chemistry**

FACULTY

John M. Rowley

Michael Selig

Karen E. Torraca

Biochemistry

BA/BS (31 hours in major; 16 prerequisites; 19 -24 co-requisites)

Biochemistry is an excellent path to entering one of the health professions or following a career in biochemical research. A Biochemistry major at Houghton College can lead to such exciting careers as bio-medical researcher, medical doctor, nurse, pharmacist or pharmacologist, nutritionist, physical therapist, or food chemist, to name a few. (For a full description of Pre-Health Professions, see that heading in this catalog, listed under “Biology Department.”) A major in Biochemistry at Houghton College enables a student to learn, in a context of faith, the normal or abnormal paths that one’s body may take, and to understand the ways in which nutrition and pharmaceuticals can best prevent or correct damage to one’s body. Because the Biochemistry major at Houghton College contains a significant liberal arts component as well as its science component, the student may choose, upon graduation, to receive either the Bachelor of Arts or the Bachelor of Science degree in Biochemistry.

Prerequisites	Credits
BIOL 151 General Biology: Organisms to Ecosystems	4
BIOL 152 General Biology: Cellular Biology and Genetics	4
CHEM 151 General Chemistry I	4
CHEM 152 General Chemistry II	4
Total	16

Co-requisites	Credits
CSCI 211 Programming I	4
MATH 181 Calculus I <i>OR</i>	4
MATH 170/171 Calculus I wit Pre-calculus A <i>AND</i> B	4, 4
PHYS 151 General Physics I	4
PHYS 152 General Physics II	4
PSY 309 Statistics	3-4
Total	19 - 24
Required Core Courses	Credits
CHEM 241 Organic Chemistry I	4
CHEM 242 Organic Chemistry II	4
BIOL 251 Genetics	4
BIOL 370 Molecular and Cell Biology	4
CHEM 332 Biochemistry	3
CHEM 334 Bioanalytical Lab	1
CHEM 268 Special Topics in Chemistry	2

CHEM 352 Physical Principles	3
BIOCHM 480 Capstone: Seminar in Biochemistry	1
BIOL xxx Elective	4
STEM 371 Career Seminar	1
Total	

Chemistry (BA)

BA (27 hours in major; 8 in prerequisites; 20-24 in co-requisites)

The BA chemistry major is designed for preparation for medical school (see Pre-Health Professions sections of this catalog under the Biology Department) or for teaching in secondary education.

Prerequisites	Credits
CHEM 151, 152 General Chemistry I, II	4, 4
Total	8
Co-requisites	Credits
PHYS 151, 152 General Physics I. II	4, 4
MATH 181 Calculus I and MATH 182 Calculus II OR	4, 4
MATH 170/171 Calculus I w/Pre-calculus A AND B and MATH 181 Calculus I	8, 4
MATH 241 Differential Equations or MATH 225 Multivariate Calculus	4

Total	20 - 24
Required Courses	Credits
CHEM 241, 242 Organic Chemistry I, II	4, 4
CHEM 277 Analytical Chemistry	4
CHEM 278 Chemical Instrumentation in Research	4
CHEM 361, 362 Physical Chemistry I, II	4, 4
CHEM 286 Special Topics	2
CHEM 482 Senior Capstone: Chemistry Seminar	1
Total	27

Chemistry (BS)

BS (36 hours in major; 8 in prerequisites; 20-24 in co-requisites)

The BS chemistry major is designed for preparation for professional employment or for graduate work in chemistry or chemically-related fields.

Prerequisites	Credits
CHEM 151, 152 General Chemistry I, II	4, 4
Total	8
Co-requisites	Credits
PHYS 151, 152 General Physics I, II	4, 4

MATH 181 Calculus I and 182 Calculus II OR	4, 4
MATH 170/171 Calculus I w/Pre-calculus A AND B and MATH 182 Calculus II	8, 4
MATH 241 Differential Equations or MATH 225 Multivariate Calculus	4
Total	20 - 24
Required Courses	Credits
CHEM 241, 242 Organic Chemistry I, II	4, 4
CHEM 277 Analytical Chemistry	4
CHEM 278 Chemical Instrumentation in Research	4
CHEM 361, 362 Physical Chemistry I, II	4, 4
CHEM 286 Special Topics	2
CHEM 482 Senior Capstones: Chemistry Seminar	1
Additional 8 hours in chemistry selected from courses numbered above 300, including at least one of the following courses:	8
CHEM 332 Biochemistry	3
CHEM 343 Advanced Organic Chemistry	4
CHEM 453 Advanced Inorganic Chemistry	4

STEM 371 Career Seminar	1
Total	36
Notes	
<i>Research strongly encouraged</i>	

MINORS

Chemistry

The minor in chemistry consists of any three four-hour CHEM courses (total of 12 hours) numbered in the 200-level or above.

[Biochemistry (CHEM 332) plus Bioanalytical Laboratory (CHEM 334), together, count as a four-hour course.]

Department of College Life and Leadership and New Student Curricula

Overview

New Student Programs

The mission of the New Student Office and the Transitions curricula at Houghton is to support new first-year and transfer students in their transition to becoming fully engaged members of the Houghton College learning community. Partnering collaboratively with departments across campus, orientation and transitions programs help students and their families gain the information and interpersonal support they need to be successful.

The three components of the Transitions program at Houghton College are Transitions 101: Connecting to Houghton, Fall Orientation, and Transitions 102: Succeeding at Houghton (a required course for first-year students during their first semester on campus)).

Transitions begins officially with Transitions 101: Connecting to Houghton, during the spring prior to enrollment. A parallel slate of sessions exists for parents and students. This day-long experience gives students the opportunity to review their fall course schedule, to get to know peers, faculty, and orientation leaders, and to take care of other important business such as financial aid. After spending a day on campus as part of Transitions 101, students and families report a sense of belonging, a sense of confirmation in their choice, and a sense of confidence that they will have a successful transition when classes begin.

Fall Orientation provides all new students and their families a chance to have the college all to themselves in the days just prior to the beginning of classes. President Mullen enjoys an opportunity to speak with the parents of our new transfer and first-year students. Parents are encouraged to stay through the New Student Dedication Service on move-in day.

INTS 102 Transitions 102: Succeeding at Houghton

(1, F) Consideration of topics essential to success as a student in Houghton's Christian academic community. Introductory experiences in individual and collaborative reading, writing, research and discussion facilitated by Houghton student and faculty leaders. Content focused on the Houghton Reads book (with support for summer reading) and related supplementary materials. Exploration and understanding of the Christian perspectives and behavioral expectations embodied in the Houghton Community Covenant. Consideration of other selected social, intellectual and theological issues pertinent to Christian life in a global twenty-first century world. Orientation to successfully navigating and utilizing the offices and services of the College. Required for all first-year and transfer students; fulfills the IS: Transitions requirement.

INTS 104 Transitions for Transfers: Succeeding at Houghton College

(0, F&S) Transitions for Transfers is a half semester course required for all entering transfer students. The course is designed to address the unique circumstances, both social and academic, of transfer students who have already had previous experience with college life. The class acquaints new students with life on the Houghton campus, college policies, and available services and

resources provided by the college. Course topics include academic integrity, career counseling and services, financial literacy, academic records and course selection, graduation requirements, and library resources. Social gatherings and activities are planned to provide opportunities for new students to become acquainted and involved in campus life.

College Life and Leadership

Department of Communication

[view dept. website](#)

Douglas M. Gaerte, chair | Susan Bruxvoort Lipscomb,
Interim Area Associate Dean

585.567.9670

Overview

Whether one seeks a career in broadcasting, journalism, public relations, advertising, government service, community development, law, business, teaching, or the ministry, the ability to communicate is essential. The communication major is interdisciplinary, focusing on helping students become competent communicators. This involves the ability to analyze messages in both personal and public contexts, to recognize and choose among the various communication strategies that are available, and to use language and images to create messages that are sensitive to the audience and that help to solve real world problems.

FACULTY

Ryann Cooley Douglas M. Gaerte David M. Huth Daniel C. Minchen

Madison T. Murphy

MAJORS

Communication (no concentration)

BA/BS 33 - 41 hours (19 hours of core courses; 2 co-requisite hours; 12 - 20 hours of elective courses)

Co-requisites	Credits
COMM 101 Presentational Speaking <i>(also satisfies the Integrative Studies Community: Communication requirement)</i>	2
Total	2
Required Courses	Credits
COMM 205 Introduction to Communication Theory	4

COMM 214 Introduction to Mass Media	4
COMM 215 Interpersonal Communication	4
COMM 216 Organizational Communication	3
COMM 417 Seminar in Public Communication	4
Total	19
Elective Courses	Credits
After consulting with the student's advisor and developing a specific coherent academic plan, a student would complete the five courses from the core requirements and five elective courses chosen from the department.	
Elective courses Total	12 - 20
Major Total	33 - 41

Communication with Concentration in Integrated Marketing Communication

BA/BS 35-37 hours (19 hours of core courses; 2 co-requisite hours; 14-16 hours of concentration courses)

The concentration in Integrated Marketing Communication builds on basic core courses to develop a defined competence in the communication components of marketing. These components include advertising, public relations, marketing events such as trade shows, direct mail or other forms of one-to-one communication, and web-based or electronic initiatives. The focus of this concentration is to enable students to enter profit or not-for-profit businesses or organizations and assume a role in a marketing or promotions department with the ability to understand, manage and implement an expected set of professional tasks.

Co-requisite	Credits
COMM 101 Presentational Speaking (<i>also satisfies the Integrative Studies Community: Communication requirement</i>)	2

Total	2
Required Courses	Credits
COMM 205 Introduction to Communication Theory	4
COMM 214 Introduction to Mass Media	4
COMM 215 Interpersonal Communication	4
COMM 216 Organizational Communication	3
COMM 417 Seminar in Public Communication	4
Total	19
Concentration Courses	Credits
COMM 218 Marketing Principles (also listed as BADM 218)	4
BADM 319 Marketing Research	2
COMM 324 Advertising and Public Relations Principles (also listed as BADM 324)	4
COMM 335 Integrated Marketing Communication Seminar (also listed as BADM 335)	2
<i>One elective course with COMM prefix</i>	2-4
Concentration Total	14-16

Communication with Concentration in Media Arts and Visual Communication

BA/BS (19 hours of core courses; 2 co-requisite hours; 14 - 20 hours of concentration courses)

This concentration focuses on visual media-making, with many classes devoted to creative studio work. To make visual media that is effective, creative, and ethical, critical analysis and cross-disciplinary connections are essential. This concentration is a unique combination of media theory, critical analysis, and cultural application combined with practical creative work focusing on digital media tools. This includes new forms of creation, distribution, and social engagement outside of traditional structures. Independent cinema, Internet and interactive media, support for non-profit organizations, alternative political or social speech, media and performance art, documentary from a personal viewpoint, and storytelling/folklore are areas where students can apply their knowledge and skills.

Co-requisite	Credits
COMM 101 Presentational Speaking <i>(also satisfies the Integrative Studies Community: Communication requirement)</i>	2
Total	2
Required Courses	Credits
COMM 205 Introduction to Communication Theory	4
COMM 214 Introduction to Mass Media	4
COMM 215 Interpersonal Communication	4
COMM 216 Organizational Communication	3
COMM 417 Seminar in Public Communication	4
Total	19

Concentration Courses	Credits
COMM 224 Time, Motion, and Communication	4
COMM 284 Introduction to Digital Imaging	4
<i>Three Elective Courses chosen from the following courses:</i>	
COMM 207 Introduction to Pro Tools	3
COMM 208 Pro Tools Production I	3
COMM 228 Digital Video I	4
Comm 328 Digital Video II	4
COMM 232 Introduction to Web Communication	4
COMM 384 Digital Imaging II	4
COMM 410 Media Arts: Advanced Projects	4
ART 245 Graphic Design I	4
ART 314 Art and History of Film	4
COMM 295, 395 Special Topics	2 - 4
COMM 389 or 489 Communication Internship	1, 2, 3, or 4

WRIT 214 Literary Non-Fiction	4
WRIT 304 Screenwriting	4
Concentration Total	14 - 20

Communication with Concentration in Rhetorical Communication

BA/BS (19 hours of core courses; 2 co-requisite hours; 13-18 hours of concentration courses)

For more than 2,000 years the study of communication was the study of rhetoric. The rhetorical communication concentration at Houghton helps students connect to the historical roots of communication study while bringing the conversation up-to-date with the application of rhetorical theory to current forms of delivering messages. Central to the study of rhetoric is the notion of civic engagement. In a democracy, the opportunity for people to express themselves, to present arguments, to engage in debate, and to praise and blame is critical to the orderly functioning of society. The rhetorical communication concentration is designed to help students construct effective and ethically responsible messages appropriate to scholar-servants. In the church, the workplace, and the community, such speakers play a critical role in creating solutions to problems, defending the rights of the oppressed, and improving the lives of fellow humans. The study of rhetoric also helps students become more discerning consumers of messages. This concentration is especially applicable to those students interested in law, politics, and the ministry.

Co-requisite	Credits
COMM 101 Presentational Speaking <i>(also satisfies the Integrative Studies Community: Communication requirement)</i>	2
Total	2
Required Courses	Credits
COMM 205 Introduction to Communication Theory	4
COMM 214 Introduction to Mass Media	4

COMM 215 Interpersonal Communication	4
COMM 216 Organizational Communication	3
COMM 417 Seminar in Public Communication	4
Total	19
Concentration Courses	Credits
COMM 316 Advanced Presentational Speaking	2
<i>Four Elective Courses chosen from the following courses:</i>	
COMM 319 American Public Address	4
COMM 244 Oral Performance of Literature	4
COMM 295, 395 Special Topics	2 - 4
COMM 389 or 489 Communication Internship	1, 2, 3, or 4
MIN 324 Principles of Expository Preaching	4
PHIL 222 Logic and Critical Thinking	4
WRIT 214 Literary Non-Fiction	4
WRIT 312 Creative Writing in Public Life	4

Concentration Total	13 - 18
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MINORS

Communication

4 Courses (14 - 16 hours)

Required Courses	Credits
COMM 205 Intro to Communication Theory	4
Three additional courses with COMM prefix	10 - 12
Total	14 - 16

Sunshine R. Sullivan, Chair | Cathy E. Freytag, Associate Dean

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Overview

- Adolescence Education (leading to certification to teach grades seven to 12 in a specific content area) 44 hours in the major.
- Art Education (leading to certification to teach visual arts in grades PK-12). 44 hours in the major; 36 hours in content major (Art as a second major).
- Inclusive Adolescence Education (leading to a Students with Disabilities Generalist certificate, grades 7-12). 48 hours in the major, plus 24 co-requisite hours. May be paired with a content major, in which case students may graduate with a second teaching certificate in their content area (grades 7-12).
- Inclusive Childhood Education (leading to certification to teach grades one to six, for general education and the education of students with disabilities) 58 hours in the major; four hours in pre/co-requisites. Students majoring in Inclusive Childhood Education also complete a concentration of 30-32 hours.
- TESOL (leading to certification to teach English to speakers of other languages in grades PK to 12) 54 hours in the major; plus a 32 hour concentration in Culture, Language and Linguistics.
- Music Education (leading to certification to teach music in grades PK to 12) varied hours depending upon the track chosen. (Please see the *Music* section of the catalog.)
- Please go to the following link to see important information about Teacher Education requirements. **General Information about Teacher Education requirements.** Athletes please also see: **Intercollegiate and Club Sports Participation During Student Teaching and the Athletic Flow Chart**

FACULTY

Deborah S. Bruce	Martin J. Coates	Constance R. Finney	Cathy E. Freytag
JooYoung Hong	Sunshine R. Sullivan	Jeffrey L. Wiesman	

MAJORS

Adolescence Education

BA (44 hours)

This major prepares students to teach at the secondary level (grades seven through 12) in one of the following subjects: augmented history (for social studies); biology, chemistry, English, mathematics, physics, or Spanish. The major includes a minimum of 100 hours of field experience which must be completed prior to student teaching; that field experience is linked to education courses, including (but not limited to) the following: EDUC 235, 240, and 33X.

Students majoring in adolescence education must complete one of the following as an additional major: augmented history (for social studies), biology, chemistry, English, mathematics, physics, or Spanish.

Required Courses	Credits
EDUC 202 Topics in Professionalism	0
EDUC 217 Education and American Culture	4
EDUC 219 Educational Psychology	4
EDUC 223 Adolescent Literature	4
EDUC 235 Educating Exceptional Learners	4
EDUC 240 Teaching in Urban America	2
EDUC 313 Language, Literacy & Curriculum Integration for Diverse Learners	4
EDUC 338 Inclusive Curriculum and Assessment in Secondary Classrooms	4
EDUC 331 Secondary Teaching: General Methods	2
<i>EDUC 33x Secondary Teaching: Content Methods & Practicum</i>	2
EDUC 332 English Methods	

EDUC 333 Foreign Language Methods	
EDUC 334 Math Methods	
EDUC 335 Science Methods	
EDUC 336 Social Studies Methods	
EDUC 409 Secondary Student Teaching I	6
EDUC 410 Secondary Student Teaching II	6
EDUC 485 Senior Capstone: Seminar on Reflective Teaching	2
Total	44

Please go to the following link to see information about Student Teaching. **IMPORTANT INFORMATION FOR STUDENT TEACHING**

Art Education

BS (44 hours in education plus double major in art as a second major)

This major prepares students to teach visual arts to students in grades PK-12. In addition to completing the Art Education major (44 hours), students also complete a second content major in art (art as a second major, 36 hours. Please see the art section of the catalog for art requirements.) The major includes a minimum of 100 hours of field experience, which must be completed prior to student teaching; that field experience is linked to education courses including (but not limited to) the following: EDUC 235, 240, 346, and 347.

Required Courses	Credits
EDUC 202 Topics in Professionalism	0
EDUC 217 Education and American Culture	4

EDUC 219 Educational Psychology	4
EDUC 221 Children's Literature or EDUC 223 Adolescent Literature	4
EDUC 235 Educating Exceptional Learners	4
EDUC 240 Teaching in Urban America	2
EDUC 313 Language, Literacy & Curriculum Integration for Diverse Learners	4
EDUC 338 Inclusive Curriculum and Assessment in Secondary Classrooms	4
EDUC 346 Elementary Art Methods	2
EDUC 347 Secondary Art Methods	2
EDUC 403 Art Student Teaching: Elementary	6
EDUC 404 Art Student Teaching: Secondary	6
EDUC 485 Senior Capstone: Seminar on Reflective Teaching	2
Total	44

Please go to the following link to see information about Student Teaching. **IMPORTANT INFORMATION FOR STUDENT TEACHING**

Inclusive Adolescence Education

BA (48 hours; 24 co-requisite hours)

This major prepares candidates to teach students with disabilities at the secondary level (Grades seven through 12) across the content areas and leads to the Students with Disabilities 7-12 Generalist certificate. This major includes 24 co-requisite hours in the core content areas, which students must complete with final course grades of C or better. Grades for these 24 hours must be

C or higher to satisfy New York State requirements. The major includes a minimum of 100 hours of field experience which must be completed prior to student teaching; that field experience is linked to education courses including (but not limited to) the following: EDUC 235, EDUC 240, and EDUC 33X.

Students wishing to earn an additional teaching certificate at the secondary level may complete a second major in one of the following areas: augmented history (for social studies), biology, chemistry, English, mathematics, physics, or Spanish. Students pursuing dual-certification at the secondary level will complete a minimum of 150 hours of field experience which must be completed prior to student teaching; that field experience is linked to education courses including (but not limited to) the following: EDUC 235, EDUC 240, and EDUC 33X.

Required Courses	Credits
EDUC 202 Topics in Professionalism	0
EDUC 217 Education and American Culture	4
EDUC 219 Educational Psychology	4
EDUC 223 Adolescent Literature	4
EDUC 235 Educating Exceptional Learners	4
EDUC 240 Teaching in Urban America	2
EDUC 313 Language, Literacy & Curriculum Integration for Diverse Learners	4
EDUC 325 Issues in Inclusive Education I	2
EDUC 338 Inclusive Curriculum and Assessment in Secondary Classrooms	4

EDUC 331 Secondary Teaching: General Methods	2
<i>EDUC 33X Secondary Teaching: Content Methods & Practicum</i>	2
332 English Methods	
333 Foreign Language Methods	
334 Math Methods	
335 Science Methods	
336 Social Studies Methods	
EDUC 409 Secondary Student Teaching I	6
EDUC 410 Secondary Student Teaching II	6
EDUC 425 Issues in Inclusive Education II	2
EDUC 485 Senior Capstone: Seminar on Reflective Teaching	2

Please go to the following link to see information about Student Teaching. **IMPORTANT INFORMATION FOR STUDENT TEACHING**

Inclusive Childhood Education

BS (58 hours; plus 4 hours in pre/co-requisites and a concentration of 30-32 hours, see concentration list)

This major prepares students to teach at the elementary level (grades one through six) in general and special education settings. The major includes a minimum of 150 hours of field experience in

general and/or inclusive classroom settings which must be completed prior to student teaching; that field experience is linked to education courses, including (but not limited to) the following: EDUC 114, 221, 235, 240, and 314.

Students will take an appropriate social science course as part of their integrative studies.

Pre/Co-requisites	Credits
One course in history or political science that focuses on an aspect of the U.S. national experience, chosen under advisement.	4
Major Requirements	Credits
EDUC 114 Mathematical Concepts and Reasoning	4
EDUC 202 Topics in Professionalism	0
EDUC 217 Educational Psychology	4
EDUC 221 Children's Literature	4
EDUC 235 Educating Exceptional Learners	4
EDUC 240 Teaching in Urban America	2
EDUC 314 Inclusive Childhood Practicum I	1
EDUC 315 Inclusive Childhood Practicum II	1
EDUC 320 Curriculum and Assessment in Inclusive Classrooms	4
EDUC 325 Issues in Inclusive Education I	2

EDUC 328 Foundations of Language and Literacy for Diverse Learners I	4
EDUC 329 Foundations of Language and Literacy for Diverse Learners II	4
EDUC 341 Social Studies in Inclusive Classrooms	2
EDUC 342 Math and Science in Inclusive Classrooms	4
EDUC 408 Inclusive Childhood Student Teaching	10
EDUC 425 Issues in Inclusive Education II	2
EDUC 485 Senior Capstone: Seminar on Reflective Teaching	2
Total	58
<i>2nd Major or concentration chosen from list below.</i>	

Students will choose either, a) a concentration in art; communication; English; humanities; intercultural studies; mathematics; math/science; science; music; social studies; Spanish language, culture, and linguistics; TESOL (teaching English to speakers of other languages); writing, or b) a second major selected from the following: art, biology (BA), chemistry (BA), communication, English, history, humanities, intercultural studies, math, music (BA), physics (BA), political science, Spanish, or writing. [Please note that completion of a concentration or major in Art (BA) or Music (BA) in conjunction with the ICE major does **not** lead to certification to teach art or music.]

Please go to the following link to see information about Student Teaching. **IMPORTANT INFORMATION FOR STUDENT TEACHING**

Inclusive Childhood Education Major with Art Concentration

BS (58 hours; plus 4 hours in pre/co-requisites and 30 - 32 hours in concentration)

See Inclusive Childhood Education Major link on department page for the major requirements.

Art Concentration Requirements	Credits
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<i>Studio Foundation total</i>	8
ART 131 Intro to Visual Arts	2
ART 241 2D Design	2
ART 242 3D Design	2
Art 211 Drawing I	2
<i>Art History (Choose at least 3 courses from the following courses)</i>	12
ART 132 Art and Architecture in Europe	4
ART 231 Ancient Art History	4
ART 232 Renaissance & Baroque Art History	4
ART 235 African Art History	4
ART 236 Asian Art History Survey	4
ART 237 Modern & Contemporary Art History	4
ART 314 Art & History of Film	4
<i>Studio Concentration</i>	12
Choose a total of 12 hours of studio course work at the 200-level or higher.	

Inclusive Childhood Education Major with Communication Concentration

BS (58 hours; plus 4 hours in pre/co-requisites and a concentration of 30-32 hours)

See Inclusive Childhood Education Major link on department page for the major requirements.

Prerequisite	Credits
COMM 101 Presentational Speaking	2
Total	2
Core Courses	Credits
COMM 205 Intro to Communication Theory	4
<i>Choose 2 of the following courses. If a schedule conflict should occur, substitutions may be made only with approval from the appropriate department chair(s).</i>	
COMM 214 Intro to Mass Media	4
COMM 215 Interpersonal Communication	4
COMM 216 Organizational Communication	3
Core Total	11-12
Electives	Credits
<i>Choose additional Communication elective courses with input from advisor(s). Pre-approved elective courses are listed below.</i>	17-18
COMM 244 Oral Performance of Literature	4

COMM 245 Theatre Arts	4
COMM 316 Advanced Presentational Speaking	2
COMM 318 Rhetorical Theory	4
COMM 319 American Public Address	4
COMM 330 Conflict Management	4
ART 314 The Art of History and Film	4
PSY 326 Family Systems Theory through Film	4
WRIT 214 Literary Non-Fiction	4
WRIT 304 Screenwriting	4
WRIT 312 Creative Writing in Public Life	4
<i>Other electives must be approved by the Chairs of the Communication and Education Departments.</i>	

Inclusive Childhood Education Major with English Concentration

BS (58 hours; plus 4 hours in pre/co-requisites and a concentration of 31-32 hours)

See Inclusive Childhood Education Major link on department page for the major requirements.

Prerequisite (<i>Choose one course from the following courses</i>)	Credits
WRIT 101 Writing in the Liberal Arts	4

ENGL 301 Critical Approaches to Literature	4
Total	4
Core Courses	Credits
<i>Students should attempt to complete each of the core courses prescribed below. If a scheduling conflict should occur, substitutions may only be made with approval from the appropriate department chair(s).</i>	
One course before 1800	3-4
One course after 1800	3-4
Major Author	4
Core Total	10-12
Electives	Credits
<i>Select additional ENGL elective courses with input from advisor(s). ENGL 202 Literary Voices, EDUC 221 Children's Literature and EDUC 223 Adolescent Literature are also permissible electives for this concentration.</i>	
Elective Total	14-16

Inclusive Childhood Education Major with Humanities Concentration

BS (58 hours; plus 4 hours in pre/co-requisites and a concentration of at least 30 hours)

See Inclusive Childhood Education Major link on department page for the major requirements.

Literature Courses	Credits
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INTS 203 Literature & Wisdom (6 hours - 3 count for Literature)	3
INTS 203H Honors Literature and Wisdom (8 hours - 4 count for Literature)	4
ENGL xxx	4
ENGL xxx	4
Literature Total	7 - 8
Philosophy Courses	
PHIL xxx	2 or 4
PHIL xxx	2 or 4
INTS 203 Literature & Wisdom (6 hours - 3 count for Philosophy)	3
INTS 203H Honors Literature & Wisdom (8 hours - 4 count for Philosophy)	4
PHIL 202 Metaphysics, Morality and Mind	4
PHIL 243 Ancient Philosophy	4
PHIL 244 Medieval Philosophy	4
PHIL 245 Early Modern Philosophy	4
PHIL 246 Late Modern & Contemporary Philosophy	4

Philosophy Total	7 - 8
History Courses (<i>Courses must be numbered 200 or above</i>)	Credits
HIST xxx	4
HIST xxx	4
History Total	8
Art or Music History (<i>Choose one course from either category</i>)	Credits
<i>Art History</i>	
ART 132 Art & Architecture in Context in Europe	4
ART 231 Ancient Art History	4
ART 232 Renaissance & Baroque Art History	4
ART 234 Art & Architecture in Europe	4
ART 235 African Art History	4
ART 237 Modern & Contemporary Art History	4
ART 314 Art & History of Film	4
<i>Music History</i>	

MHS 222 Introduction to Film Music	3
MHS 254 Music of World Cultures	3
MHS 280 Music History and Literature II	3
MHS 333 Music History and Literature III	3
Art or Music History Total	3 or 4
Elective	Credits
<i>Choose from either ENGL, PHIL, or HIST (selected from options listed above).</i>	2 - 5
Note: Writing in the Liberal Arts (WILA) and Western Civilization do not count toward the Humanities concentration.	

Inclusive Childhood Education Major with Intercultural Studies Concentration

BS (58 hours; plus 4 hours in pre/co-requisites and a concentration of 30-36 hours)

See Inclusive Childhood Education Major link on department page for the major requirements.

Core Courses	Credits
<i>Students should attempt to complete each of the core courses prescribed below. If a scheduling conflict should occur, substitutions may only be made with approval from the appropriate department chair(s).</i>	
INCL 201 Introduction to Global Issues	4
INCL 243 Cultural Anthropology	4

INCL 310 Intercultural Competencies	4
INCL 311 Intercultural Experience	0 - 4
Core Total	12 - 16
Electives	Credits
<i>Select additional elective courses with input from advisor(s). Suitable electives are any Liberal Arts (LA) courses that could be counted towards the Intercultural Studies Major, including:</i>	
Core courses in the Intercultural Studies Major that are not included above in the core for the Intercultural Studies Concentration.	
Courses included in any of the Intercultural Studies Concentrations (International Development, Linguistics, Missions, Urban Studies, Spanish, TESOL)	
Other electives listed as suitable for the Intercultural Studies Major.	
Electives Total	14 - 20

Inclusive Childhood Education Major with Mathematics & Science Concentration

BS (58 hours; plus 4 hours in pre/co-requisites and a concentration of at least 30 hours)

See Inclusive Childhood Education Major link on department page for the major requirements.

Mathematics Courses	Credits
EDUC 114 Mathematical Concepts & Reasoning	4
MATH 181 Calculus I OR	4

MATH 170 Calculus I with Pre-Calculus A AND MATH 171 Calculus with Pre-Calculus B	4,4
MATH 210 Introduction to Proofs	2
MATH xxx Math elective(s)	0 - 4
MATH Total	Minimum 14
Science Courses (<i>Choose courses from at least two of the following areas</i>)	Credits
<i>Biology</i>	
BIOL 103 Fundamentals of Biology	4
BIOL 105 Conservation Biology	4
BIOL 151 General Biology: Organisms to Ecosystems	4
BIOL 152 General Biology: Cellular Biology and Genetics	4
BIOL 217 Human Anatomy & Physiology	4
<i>Chemistry</i>	
CHEM 121 Impact: Science on Society	3
CHEM 187 Intro to Nutrition (with optional lab)	3 - 4
CHEM 151 General Chemistry I	4

CHEM 152 General Chemistry II	4
<i>Earth Science/Physics</i>	
ESCI 101 Physical Geology	3 - 4
ESCI 212 Environmental Earth Science	3 - 4
PHYS 102 General Astronomy	3 - 4
PHYS 130 How Things Work	4
PHYS 151 General Physics	4
Science Total	minimum 14

Inclusive Childhood Education Major with Mathematics Concentration

BS (58 hours; plus 4 hours in pre/co-requisites and a concentration of at least 30 hours)

See Inclusive Childhood Education Major link on department page for the major requirements.

Mathematics Courses	Credits
EDUC 114 Mathematical Concepts & Reasoning	4
MATH 181 Calculus I <i>OR</i>	4
MATH 170 Calculus I with Pre-Calculus A AND MATH 171 Calculus I with Pre-Calculus B	4,4

MATH 182 Calculus II	4
MATH 210 Introduction to Proofs	2
Mathematics Total	14-18
Mathematics and Computer Science Electives	Credits
<i>Choose courses from the following courses</i>	
CSCI 211 Programming I	4
CSCI 218 Programming II	4
MATH 2xx or above <i>(Two 2-credit courses may be substituted for a 4-credit course.)</i>	
Electives Total	12-16

Inclusive Childhood Education Major with Music Concentration

BS (58 hours; plus 4 hours in pre/co-requisites and a concentration of at least 30 hours)

Required Courses	Credits
MUS 250 Music in Christian Perspective	2
<i>Music Theory and Musicianship Studies</i>	
MTH 101 Music Fundamentals Review [includes Aural Skills]	3
MTH 102 Music Fundamentals Review [includes Aural Skills]	3
MTH 226 Music Theory and Aural Skills I	4

MTH 227 Music Theory II and Aural Skills II (MTH 228)	4
MTH 325 Music Theory III and Aural Skills III (MTH 326)	4
MTH 327 Music Theory IV and Aural Skills IV (MTH 328)	4
Theory Total	16
<i>Music Literature, Stylistic, and Historical Studies</i>	
MLT 211 Intro to Music and Listening	3
MHS 254 Music of World Cultures	3
MHS 280 Music History & Literature II	3
MHS 300 Music History & Literature III	3
Music History Total	9
<i>Ensemble Participation</i> - Minimum 4 semesters of participation in major ensemble with or without credit (credit does not count toward 30 credit minimum).	
Ensemble Total	0 - 4
<i>Electives</i> (select in consultation with curriculum advisor)	
MCHU 312 Recent Congregational Song	2
MCHU 451 Music and Worship	3
MLT 4xx Instrument/Vocal Literature	2
Elective Total	3-5

Inclusive Childhood Education Major with Science Concentration

BS (58 hours; plus 4 hours in pre/co-requisites and a concentration of at least 30 hours)

Students concentrating in science must select courses from at least three of the disciplines listed below. Students must take at least 2 courses from 2 of the chosen disciplines.

Required Courses	Credits
Biology	
BIOL 103 Fundamentals of Biology	4
BIOL 151 General Biology: Organisms to Ecosystems	4
BIOL 152 General Biology: Cellular Biology and Genetics	4
BIOL elective 105 or above	4
<i>Note: BIOL 151 & 152 are prerequisites for most upper level Biology courses.</i>	
Biology Total	0 - 16
Earth Science	
ESCI Physical Geology	3-4
ESCI 212 Environmental Earth Science	3-4
ESCI elective above 102	4

Earth Science Total	0 - 12
Chemistry	
CHEM 187, 188 Intro to Nutrition	3-4
CHEM 121 Impact: Science on Society	3
CHEM 151 General Chemistry I	4
CHEM 152 General Chemistry II	4
Chemistry Total	0 - 15
Physics	
PHYS 151 General Physics I	4
PHYS 152 General Physics II	4
PHYS 102 General Astronomy	3-4
PHYS 130 How Things Work	4
Physics Total	0 - 16

Substitutions may be made under advisement and with the approval of the appropriate department chair(s).

Inclusive Childhood Education Major with Social Studies Concentration

BS (58 hours; plus 4 hours in pre/co-requisites and a concentration of 30 hours)

See Inclusive Childhood Education Major link on department page for the major requirements.

History Courses	Credits
Any HIST course(s) meeting the IS Culture: History requirement	4
HIST elective, non-European, non-American History	4
HIST elective above 220	4
Any American History elective <i>(Choose one course from the following courses)</i>	
HIST 126 New York State History	4
HIST 220 American History Survey	4
HIST 359 Colonial America, 1600-1788	4
HIST 360 Early National Period, 1788-1850	4
HIST 361 Civil War and Industrial America, 1850-1920	4
HIST 362 Recent American History, 1920 to Present	4
History Total	16
Political Science <i>(Choose one of the following courses)</i>	Credits
POLS 205 In Search of Justice	4

POLS 220 The American Political System	4
POLS 375 Immigration and Citizenship	4
Political Science Total	4
Economics	Credits
ECON 201 Intro to Economics	2
Economics Total	2
Social Science <i>(Select two courses from the following options upon consultation with a curriculum advisor)</i>	Credits
PSY 213 Developmental Psychology	4
<i>(or another appropriate PSY elective with the approval of the appropriate department chairs)</i>	
ANTH 243 Cultural Anthropology	4
Two ECON courses numbered 210 or above	2, 2
Any POLS course numbered 204 or above	4
Social Science Total	8

Inclusive Childhood Education Major with Spanish Language, Culture & Linguistics Concentration

BS (58 hours; plus 4 hours in pre/co-requisites and a concentration of at least 30 hours)

See Inclusive Childhood Education Major link on department page for the major requirements.

Prerequisites	Credits
SPAN 101 Spanish Level 1	4
SPAN 102 Spanish Level 2	4
SPAN 205 Intermediate Spanish	4
Prerequisite Total	0 - 12
<i>Note: Students entering Houghton College with demonstrated competency toward one or more of these courses, will need to select additional Spanish electives to ensure they have earned a minimum of 30 credits. Credits transferred in will count toward the concentration.</i>	
Core Courses	Credits
<i>Students should attempt to complete each of the core courses prescribed below. If a scheduling conflict should occur, substitutions may only be made with approval from the appropriate department chair(s).</i>	
SPAN 301 Spanish Communication	4
SPAN 305 Spanish Phonetics	4
SPAN 350 Advanced Spanish Grammar & Composition	4
SPAN 405 Civilization and Culture of Latin America	2
SPAN 406 Civilization and Culture of Spain	2
Core Total	16
Electives	Credits

Inclusive Childhood Education Major with TESOL Concentration (Teaching English to Speakers of Other Languages)

BS (58 hours; plus 4 hours in pre/co-requisites and a concentration minimum 34 credits, in most cases students concentrating in TESOL will earn 36 credits)

See Inclusive Childhood Education Major link on department page for the major requirements.

Language other than English	Credits
Total	12
<i>Note: Students entering Houghton College with demonstrated competency in a language, you still must complete twelve hours of course work in a language other than English to meet the requirement for this concentration. Non-native English speakers may demonstrate equivalent competency as determined by the World Languages Department and the Academic Records Office and will fulfill minimum credits toward the concentration through additional elective credits (listed below) chosen under advisement.</i>	
Core Courses	Credits
LING 220 Introduction to Linguistics	4
LING 350 First and Second Language Acquisition	4
LING 351 Linguistics for TESOL	4
LING 370 Understanding English Grammar	4
LING 371 TESOL Methods: ELA	2

LING 372 TESOL Methods: Content Areas	2
Core Total	20
Elective (<i>Choose one course from the following courses</i>)	Credits
LING 312 Sociolinguistics	4
LING 322 Phonetics	4
LING 323 Phonology I	4
LING 333 Grammar I	4
Elective Total	4

Note: According to NYS teacher certification requirements (as of April 2011), ICE graduates who are granted an Initial Teaching Certificate from New York State and who have completed the coursework included in this concentration, achieving a grade of C or better in each course, may be able to receive Initial ESOL certification through the Individual Evaluation for Additional Classroom Teaching Certificate pathway (<http://eservices.nysed.gov/teach/certhelp/CertRequirementHelp.do>).

Inclusive Childhood Education Major with Writing Concentration

BS (58 hours; plus 4 hours in pre/co-requisites and a concentration of 31-32 hours)

See Inclusive Childhood Education Major link on department page for the major requirements.

Prerequisite (<i>Choose one course from the following courses</i>)	Credits
WRIT 101 Writing in the Liberal Arts	4
ENGL 301 Critical Approaches to Literature	3
Prerequisite Total	3 or 4

Note: Students entering Houghton College with writing competency, will need to select additional writing electives to ensure that they have earned a minimum of 30 credits. Students transferring in credit- will have those credits applied toward the concentration.

Core Courses	Credits
<i>Students should attempt to complete each of the core courses prescribed below. If a scheduling conflict should occur, substitutions may only be made with approval from the appropriate department chair(s).</i>	
WRIT 214 Literary Non-Fiction	4
WRIT 215 Life Narratives	4
Core Total	8
Electives	Credits
<i>Select additional ENGL/WRIT elective courses with input from advisor(s). ENGL 202 Literary Voices is an acceptable elective for this concentration.</i>	
Elective Total	20

TESOL Major with a concentration in Culture, Language, and Linguistics

BS (54 hours in the major; 32 hours in the concentration)

This major prepares students to teach English to speakers of other languages at the elementary (grades PK through 6) and the secondary level (grades 7 through 12). The major includes a minimum of 100 hours of field experience which must be completed prior to student teaching; that field experience is linked to education courses, including the following: EDUC 114, 221, 235, 240, 326, and 327.

Required Courses	Credits
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EDUC 114 Mathematical Concepts and Reasoning	4
EDUC 202 Topics in Professionalism	0
EDUC 217 Education and American Culture	4
EDUC 219 Educational Psychology	4
EDUC 221 Children's Literature	4
EDUC 235 Educating Exceptional Learners	4
EDUC 240 Teaching in Urban America	2
EDUC 320 Curriculum and Assessment in Inclusive Classrooms	4
EDUC 326 TESOL Practicum I: Elementary	1
EDUC 327 TESOL Practicum II: Secondary	1
EDUC 328 Foundations of Language and Literacy for Diverse Learners I	4
EDUC 329 Foundations of Language and Literacy for Diverse Learners II	4
EDUC 371 TESOL Methods: ELA	2
EDUC 372 TESOL Methods: Content areas	2
EDUC 422 TESOL student teaching: elementary level	6

EDUC 423 TESOL student teaching: secondary level	6
EDUC 485 Senior Capstone: Seminar on Reflective Teaching	2
Total	54
<i>Students majoring in TESOL education must complete a concentration in Culture, Language, and Linguistics</i>	
Concentration Requirements	Credits
INCL/ANTH/SOC 243 Cultural Anthropology	4
<p>Course work in one Language Other Than English</p> <p>Non-native English speakers may demonstrate equivalent competency as determined by the World Languages Department and the Academic Records Office and will fulfill minimum credits toward the major through elective credits chosen under advisement.</p>	12
LING 220 Intro to Linguistics	4
LING 350 First and Second Language Acquisition	4
LING 351 Linguistics for TESOL	4
LING 370 Understanding English Grammar	4
LING and/or INCL electives chosen under advisement <i>(if needed)</i>	0 - 12
Concentration Total	32

Total Major and Concentration	86
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Please go to the following link to see information about Student Teaching. **IMPORTANT INFORMATION FOR STUDENT TEACHING**

MINORS

Education

14 - 16 hours

An education minor may be chosen by students who wish to broaden their understanding of the educational process yet are not seeking certification.

Required Courses	Credits
EDUC 219 Educational Psychology	4
EDUC 217 Education & American Culture	4
Required courses Total	8
<i>Electives (Choose at least two of the following courses in consultation with an Education Department faculty member)</i>	Credits
EDUC 114 Mathematical Concepts and Reasoning	4
EDUC 221 Children's Literature	4
EDUC 223 Adolescent Literature	4
EDUC 235 Educating Exceptional Learners	4
EDUC 240 Teaching in Urban America	2
Elective Total	6 or 8

Susan Bruxvoort Lipscomb, Chair and interm Area Associate
Dean
585.567.9670

Overview

The major in English provides students with strong liberal arts preparation for a variety of careers in fields including education, business, and the media. It is also appropriate for pre-seminary and pre-law students.

The writing major provides students with a strong liberal arts preparation for a variety of careers including journalism, publishing, law, advertising, public relations, teaching and business. The major is designed to help students develop their skills in recording and communicating information as well as their ability to use writing as a tool for thinking, articulating ideas, and solving problems.

Teaching English – Inclusive Childhood (Elementary) Education or Adolescence (Secondary) Education: See Education section in this catalog.

FACULTY

Laurie A. Dashnau Lori L. Huth Susan Bruxvoort Lipscomb James F. Wardwell

Stephen A. Woolsey James A. Zoller

MAJORS

English

BA (40 hours in the major)

Required Courses	Credits
ENGL 301 Critical Approaches to Literature	4
One ENGL course before 1800	4
One ENGL course after 1800	4
ENGL 335/350 Major Author	4

ENGL 418 Senior Capstone: Seminar	4
Total	20
Choose one of the following options:	Credits
Option One: <i>Literature Emphasis</i>	
20 hours of ENGL and WRIT courses, up to 10 of which may be WRIT	
Total	20
Option Two: <i>Writing Emphasis</i>	
WRIT 214 Literary Non-Fiction	4
8 hours of ENGL and 8 hours of WRIT	16
Total	20

Writing

BA/BS (36 hours in major)

Required Courses	Credits
ENGL courses numbered 216 and above	12
WRIT 214 Literary Non-Fiction	4
WRIT 401 Workshop	4
Additional WRIT courses	16
Total	36

EDUC 221 may be used by majors in Inclusive Childhood Education to count for the Writing major.

MINORS

English

16 hours

Requirements	Credits
ENGL 301 Critical Approaches to Literature	4
Other (ENGL) literature courses	12
Total	16

Writing

16 hours

Required Courses	Credits
WRIT 214 Literary Non-Fiction	4
Additional WRIT courses	12
Total	16

Peter C. Meilaender, chair | Paul D. Young, Associate Dean

585.567.9440

Overview

The history major involves a strong liberal arts concentration. The major provides excellent background for careers in law, the ministry, public administration, government service, college and secondary teaching, business, foreign service, and preparation for archivists, museum curators, historic site specialists, librarians, editors, and writers.

The political science major helps students develop an understanding of politics that integrates four elements: a grasp of fundamental theoretical concepts and problems of political life; an understanding of how those concepts and problems shape and inform the domestic politics of the United States; an understanding of how those concepts and problems shape and inform the world of international relations; and finally a sense of how our understanding of those same concepts and problems is enriched by the comparative analysis of different countries and political systems. In all of these ways, the major helps prepare students for responsible citizenship. It is helpful to students contemplating careers in teaching, government, law, diplomacy, international service, business, and journalism.

Teaching History – Inclusive Childhood (Elementary) or Adolescence (Secondary) Education:
See Education section in this catalog.

FACULTY

A. Cameron AirhartWilliam R. DoezezaDavid A. HowardPeter C. Meilaender

Ronald J. OakersonMeic Pearse

MAJORS

Augmented History

BA (38 hours) For certification at the secondary level

Required Courses	Credits
ECON 201 Intro to Economics	2
HIST xxx American History	4, 4

HIST xxx European History	4, 4
HIST xxx Non-European, non-American History	4, 4
POLS 220 American Political System	4
Total	30
Plus 8 hours in either:	Credits
HIST xxx History Elective	4
HIST 481 Senior Capstone: Senior History Seminar	4
Total	8
OR	
POLS xxx Political Science Elective (<i>must be 300 or 400 level</i>)	4
POLS 480 Senior Capstone: Senior Politics Seminar	4
Total	8

History

BA (36 hours)

This major consists of 36 hours in any history course numbered 200 or above. All majors must take the Senior History Seminar (HIST 481). The remaining 32 hours are elective. Transfer students have to take at least half of their major at Houghton.

Required Course	Credits
HIST 481 Senior Capstone: Senior History Seminar	4
Elective Courses	Credits
Any courses numbered 200 or above	32

Total credits	36
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Political Science

BA (35*-36 hours)

Required Core Courses	Credits
POLS 212 Social Science Research Methods	4
POLS 220 The American Political System	4
POLS 230 Introduction to International Relations <i>or</i> POLS 437 International Law	4
POLS 260 Introduction to Political Thought	4
POLS 480 Senior Capstone: Politics Seminar	4
Total	20
Political Science Electives	Credits
Political Science Electives (<i>up to 4 credits may be fulfilled through an internship</i>)	15*-16
Total	15*-16

Students will be encouraged to complete a broad liberal arts education, especially including exposure to the other social sciences (economics, sociology, psychology, and cultural anthropology) as well as history, philosophy, ethics, logic, and critical thinking.

*If a student takes a Mayterm course worth only 3 credit hours, s/he may complete the major with only 15 hours of elective credit and 35 hours total.

Political Science Major with Public Law and Policy Concentration

BA (35*-36 hours in major and 16 hours in concentration)

Major Requirements	Credits
POLS 212 Social Science Research Methods	4

POLS 220 The American Political System	4
POLS 230 Introduction to International Relations <i>or</i> POLS 437 International Law	4
POLS 260 Introduction to Political Thought	4
POLS 480 Senior Capstone: Politics Seminar	4
Total	20
Political Science Electives	Credits
Political Science Electives (<i>up to 4 credits may be fulfilled through an internship</i>)	15*-16
Total	15*-16
<i>*If a student takes a Mayterm course worth only 3 credit hours, s/he may complete the major with only 15 hours of elective credit and 35 hours total.</i>	
Public Law & Policy Concentration	Credits
POLS 270 Introduction to Public Policy	4
Electives (<i>choose 3 courses from following list</i>)	Credits
POLS/PHIL 322 Philosophy of Law	4
POLS 328 Governing Urban Communities	4
POLS 346 Governance and Development	4
POLS 375 Immigration and Citizenship	4
POLS 427 Constitutional Law I	4
POLS 428 Constitutional Law II	4
POLS 429 Religion and the Constitution	4
POLS 437 International Law and Organization	4

MINORS

History

16 hours

The history minor consists of any 16 hours of history courses numbered 200 or above.

Political Science

16 hours

16 hours of POLS coursework. (*If a student takes a Mayterm course worth only 3 credit hours, s/he may complete the minor with only 15 hours.)

PRE-PROFESSIONAL

Pre-law Interest

Faculty Advisors: Peter C. Meilaender, Ron J. Oakerson

From the Mosaic law of the Pentateuch and the pugnacious speeches of the courts of Athens, the practice and study of law have roots deep in western history. Today, law continues to play a critical role in helping the dynamic world of the 21st-century function effectively. Politics, economics, technology - in an increasingly globalized world, every aspect of human culture is enmeshed in a web of national and international legal institutions. Indeed, few fields so deeply combine theory and practice as does the law, opening diverse avenues for applying the tools of the intellect to the problems of society.

Houghton's emphasis on the liberal arts provides a broad range of study as well as specific skills in critical thinking, reading comprehension, research, and oral and written communication. Organizations such as the American Bar Association (www.abanet.org) and the Law School Admissions Council (www.lsac.org) recommend precisely this sort of preparation for students planning to attend law school.

The study of Pre-Law is built around a personal, individualized relationship with one of the college's pre-law advisors. Students considering law school come from all majors and minors - no particular major is required. The pre-law advisors work with each student to develop a study that complements his or her chosen major by emphasizing the development of analytical thinking, habits of thoroughness, intellectual curiosity, scholarship, and the ability to organize data and communicate results. We recommend a balanced selection of courses, drawn from areas such as logic and critical thinking; communication, public speaking, debate, and writing; American history and politics; philosophy and ethics; mathematics and accounting; and economics, sociology, or other social sciences. These recommendations directly reflect law school admissions expectations.

The pre-law advisors also encourage students to consider additional forms of relevant preparation, such as internships in local law offices or opportunities for research and field experience. And they

work closely with the Office of Career Services on matters such as LSAT preparation and the law school application process. Those interested in Pre-Law also sponsor various events, including the college's annual Constitution Day celebration and an associated reading group; excursions to law offices, courtrooms, or regional points of interest; and visits with members of Houghton's extensive network of alumni attorneys. Students are also encouraged to join the Runnymede Society, Houghton's student Pre-Law society. Founded in 2010, the Runnymede Society sponsors a range of events devoted to helping students prepare for law school and promoting campus discussion about issues of law and public affairs.

In addition to attending law school, pre-law students discover a range of callings, including graduate work in political science, philosophy, or business, as well as careers in law-related fields such as criminal justice, sociology, development, and journalism. The preparation required for success in law school translates well to many of the professions.

Benjamin J. B. Lipscomb, Director

Overview

Houghton College offers a variety of honors opportunities centered on several gateway curricula, three for first-year students and one for second-year students and transfers. Students who have completed one of these gateway curricula are entitled to enroll in a variety of one-credit honors seminars during the rest of their college career. Qualified students have the option to write an honors thesis in their major discipline during their senior year. Select students are invited to apply for entrance into the gateway curricula. Selection of honors students occurs in the spring. Students in these curricula are expected to maintain at least a 2.5 GPA; failure to do so will trigger review by the Academic and Student Life deans and the Director of Honors.

AREAS OF STUDY

East Meets West

16 hours (1 in fall, 12 in spring, 3 in Mayterm)

Director: Meic Pearse

This course of study in the fall and spring semesters and Mayterm, focuses on the relationship between Middle-Eastern Islam, the Orthodox culture of Eastern Europe, and the West. Students typically take 13 hours on campus (leaving room in their spring schedule for one non-honors course), and three hours during Mayterm in Eastern Europe. Occasionally, four hours are delivered the fall after the Mayterm, and students are able to take two non-honors courses in the spring. The course is co-taught by a church historian (Prof. Pearse), a political scientist, and a member of the English faculty. Meets IS requirements in Faith Foundation: Theology, Community: Political Science, three of the four Culture requirements, in Fine Arts, History, and Literature, and the Writing Competency.

London Honors

18 hours (2 in fall, 16 in spring)

The London honors curriculum focuses on the origins and development of the modern West, with some attention to West/non-West interactions. Following a fall pro-seminar on ancient and medieval background, the curriculum is delivered in London, England, taking advantage of the museums, galleries, performance venues, and other resources of the city. Meets the Faith Foundation:

Theology requirement, half of the two-part Community requirement, and the entire four-part requirement in Culture requirement, as well as the Writing Competency.

Scholastica

6 hours (fall)

This course, which fuses biblical studies and theology, is available to select students in their second year or beyond who have not participated in one of Houghton's first-year honors curricula. Led by a team of faculty in both disciplines, students examine historical paradigms in the understanding of scripture and Christian doctrine and how they have been influenced by historical developments. Meets both Faith Foundation requirements.

Science Honors

16 hours (4 in fall, 8 in spring, 4 in Mayterm)

Director: John Rowley

The integrative, problem-based Science Honors curriculum comprises 12 hours of coursework in the fall, spring and Mayterm semesters, and is team-taught by faculty from biology, chemistry, physics, communication, and writing. The Science Honors curriculum is supplemented by special sections of Western Civilization (2 hours fall and spring). Meets the entire IS Creation requirement as well as the Writing Competency and IS requirements in Culture: History and Community: Communication.

Cameron Airhart, Dean

Overview

This program is a fixed curriculum in the liberal arts taught in a cohort model, with an area of focus in workplace readiness.

AREAS OF STUDY

Associate of Arts Program

Houghton in Buffalo Associate of Arts Program

This program is a fixed curriculum in the liberal arts taught in a cohort model, with an area of focus in workplace readiness. At least 30 hours, including at least 18 of the last 24, must be from Houghton College.

Requirements	Credits
Writing for the Liberal Arts	3
Literature Voices	3
Biblical Literature	4
Introduction to Christianity	4
History: Western Civilization	4
Political Science: Governing the City	3
Mathematics Survey	3
Introduction to Human Communication	4

Cultural Anthropology	3
Principles of Microeconomics	3
Fundamentals of Biology with lab	3
Masterworks of Sight & Sound	3
Introduction to Web Communication	3
Philosophy: Workplace Ethics	3
Capstone Seminar	1
Capstone Experience**	1
Total Liberal Arts Requirements	46

Area of Focus-Workplace Readiness	Credits
Introduction to Business	3
Marketing Principles	3
Computer Applications & Issues	3
Internship in Business	4
Total Workplace Readiness Requirements	13

**Capstone experience will be completed in Houghton, NY.

Susan Bruxvoort Lipscomb, Director.

Overview

Houghton College Integrative Studies Requirements - BA/BS/BFA

The core of a liberal arts education at Houghton is found in the college's Integrative Studies requirements, which all students must satisfy. The Integrative Studies requirements embody an interdisciplinary vision of the skills, content, and ways of thinking "that equip students to lead and labor as scholar-servants in a changing world" (in the words of the Houghton College mission statement). They consist of core competencies that students must demonstrate, along with a set of distribution requirements across the college's main curricular areas of study.

Competencies

All students must demonstrate basic competency - either through successful completion of an approved course or through prior high school experience (criteria for meeting competencies can be found at the [Academic Records Office/Academic Information webpage](#)) - in four key areas essential to success in college and in life:

1. Writing: All students must demonstrate basic writing competency, typically in the first year.
2. Quantitative Literacy: All students must demonstrate basic competency in mathematical reasoning.
3. Foreign Language: All students must demonstrate basic competency, equivalent to a year of college study, in a language other than English.
4. Health and Wellness: All students must develop habits of lifetime wellness by taking an introductory course with lab covering basic topics in wellness, as well as two physical activity courses.

Distribution Requirements

All students must take coursework in the following areas:

1. Transitions: During their first year, all first year students take a one-hour course introducing them to college and the liberal arts. Transfers have a course as well.
2. Faith Foundation: All students take two courses, one in Bible (typically in the first year), the other in Christian Theology. (Courses must be selected from approved list.)
3. Culture: All students take four courses in the humanities, one in each of these disciplines: History (typically in the first year), Literature, Philosophy, and the Fine Arts. (Courses must be selected from the approved list.)
4. Creation: All students take two courses in math or natural science. One of the two must be a laboratory science. Students who have not otherwise satisfied the Quantitative Literacy Competency also take a math course; students who have satisfied it may choose between

math and science for their second course. (Courses must be selected from the approved list.)

5. Community: All students take two courses in the social sciences, chosen from different disciplines: Anthropology, Communication, Economics, Political Science, Psychology, or Sociology. (Courses must be selected from the approved list.)

A list of approved IS courses for students pursuing the BA, BFA or BS degrees can be found at [BA, BFA or BS IS](#).

Houghton College Integrative Studies Requirements - BMUS

A list of approved IS courses for students pursuing the BMUS degree can be found at [IS for BMUS](#).

FACULTY

Susan Bruxvoort Lipscomb

Marcus W. Dean, Chair and Area Associate Dean

585.567.9634

Overview

The mission of the Intercultural Studies Department is to prepare Christians to respond to key problems of global concern in culturally relevant ways that follow kingdom principles. The Department offers two majors, Intercultural Studies and International Development, both drawing heavily on the methodologies and perspectives of anthropology and related social sciences, integrating the theory of cross-cultural development work with experiential learning in cross-cultural settings. These majors will provide competence for students seeking to serve in such fields as community development, relief work, health services, education, missions, and Bible translation in developing countries, multi-cultural contexts in the US, and the inner-city context. Both majors and the minors prepare students for today’s multicultural job market and mutual learning across cultures.

Concentrations for the Intercultural Studies major are optional. If a concentration is not selected, students will need to choose two electives .

Students completing the International Development major will need to complete either an approved second major, or two approved minors to build a skill set for addressing development problems and potentials.

Self-designed minors can be developed to compliment the major for interests for which there are no concentrations.

Students interested in Education with an Intercultural concentration, please see the Education section of this catalog.

FACULTY

Robert A. Black	David A. Brubaker	Marcus W. Dean	Richard K. Eckley
Benjamin Hegeman	JooYoung Hong	Asher John	Ndunge Kiiti
Eli J. Knapp	Kristina LaCelle-Peterson	Don B. Little	Ronald J. Oakerson

MAJORS

Intercultural Studies

BA (28-38 hours which includes a 22-30 hour core plus either six to eight hours of electives or one 16-20 hour concentration.)

The concentration options include: International Development, Linguistics, Missions, Spanish, TESOL, and Urban Studies.

Required Courses	Credits
INCL 201 Introduction to Global Issues	4
INCL 243 Cultural Anthropology	4
INCL 310 Intercultural Competencies	4
INCL 311 Intercultural Experience	0-4
Conversation-level Language	0-4
INCL 346 Governance and Development or POLS 345 Community Organization and Development or ANTH 315 Human Ecology	4
INCL 350 Culture Change or LING 312 Sociolinguistics or INCL 442 Globalization & Islamization	4
INCL 482 Senior Capstone: Intercultural Seminar	2
Total	22-30
Electives (<i>any course listed in the concentrations or listed but not taken as part of the core.</i>)	Credits
<i>Students are expected to choose from the options to enrich their major. Courses should be chosen to supplement, not coincide with concentrations.</i>	
Art Department	
INCL/ART 238 Art and Music in Australia and New Zealand	4

Business and Economics Department	
BADM 313 International Business	2
ECON 212 International Economics	2
World Languages and Literatures Department	
Another 300+ level Foreign Language course	4
History and Political Science Department	
HIST 223 Latin American History	4
HIST 249 African History	4
HIST 251 East African History	4
HIST 355 East Asia: History and Politics	4
POLS 212 Social Science Research Methods	4
POLS 240 Comparing Nations	4
Greatbatch School of Music	
MHS 254 Music of World Cultures	3
Psychology and Sociology Department	

SOC 293 East African Cultures	3 or 4
INCL/PSY/SOC 329 Australia and New Zealand Culture through Film	4
SOC 330 Culture and Family	2
SOC 338 Religion, Faith and Society	2
SOC 361 Race, Gender and Environment	4
Social Science Methodology	
SOC 307 and SOC 308 or SOC 309 Statistics	(2, 2) or (4)
Total	6 - 8

Intercultural Studies Major with International Development Concentration

BA (22-30 hrs in the major and 19-22 hrs in the concentration)

The International Development concentration equips students with the critical-analytical skills and contextual knowledge needed to understand and address practical problems of sustainable development anywhere in the world. The concentration is grounded in a Christian worldview and therefore pursues ideas and approaches to development that hold the promise of holistic transformation within communities and institutions, and seeks to correct the injustices associated with poverty, oppression, and inequality.

Major Requirements	Credits
INCL 201 Introduction to Global Issues	4
INCL 243 Cultural Anthropology	4

INCL 310 Intercultural Competencies	4
INCL 311 Intercultural Experience	0-4
Conversation-level Language	0-4
INCL 346 Governance and Development <i>or</i> POLS 345 Community Organization and Development <i>or</i> ANTH 315 Human Ecology	4
INCL 350 Culture Change <i>or</i> LING 312 Sociolinguistics <i>or</i> INCL 442 Globalization & Islamization	4
INCL 482 Senior Capstone: Intercultural Seminar	2
Major Total	22-30
International Development Concentration	Credits
INCL 338 Issues in Development	4
INCL 347 Development Communication and Grant Writing	4
POLS 212 Social Science Research Methods	4
POLS 345 Community Organization and Development	4
One optional course from the following courses:	Credits
ECON 201 Introduction to Economics <i>and</i> ECON 210 Principles of Microeconomics <i>and</i> ECON 211 Principles of Macroeconomics	2, 2, 2

INCL 345 Peacebuilding: Genocide and Religious Diversity (Go ED)	3
INCL 348 Foundations of Health Development	4
INCL 442 Globalization and Islamization	4
Concentration Total	19-22

Intercultural Studies Major with Linguistics Concentration

BA (22-30 hrs in the major and 20 hrs in the concentration)

Linguistics courses are useful to anyone expecting to learn or work with languages. The linguistics concentration seeks to train students to become global scholar-servants, offering opportunities for global scholarship and service in language development, documentation of "endangered" languages, literacy and service in Bible translation. The program along with the INCL Core prepares the student to work in the multicultural settings where these opportunities abound. Students become familiar with both the sound systems and grammatical structures of language to prepare them for comprehensive language analysis and documentation.

Major Requirements	Credits
INCL 201 Introduction to Global Issues	4
INCL 243 Cultural Anthropology	4
INCL 310 Intercultural Competencies	4
INCL 311 Intercultural Experience	0-4
Conversation-level Language	0-4
INCL 346 Governance and Development or POLS 345 Community Organization and Development or ANTH 315 Human Ecology	4
INCL 350 Culture Change or LING 312 Sociolinguistics or INCL 442 Globalization &	4

Islamization	
INCL 482 Senior Capstone: Intercultural Seminar	2
Major Total	22-30
Linguistics Concentration Requirements	Credits
LING 220 Introduction to Linguistics	4
LING 322 Phonetics	4
LING 323 Phonology I	4
LING 333 Grammar I	4
Choose one special interest course from the following courses:	Credits
LING 312 Sociolinguistics	4
LING 350 First and Second Language Acquisition	4
LING 351 Linguistics for TESOL	4
Concentration Total	20

Intercultural Studies Major with Missions Concentration

BA (22-30 hrs in the major and 19-20 hrs in the concentration)

Major Requirements	Credits
INCL 201 Introduction to Global Issues	4
INCL 243 Cultural Anthropology	4

INCL 310 Intercultural Competencies	4
INCL 311 Intercultural Experience	0-4
Conversation-level Language	0-4
INCL 346 Governance and Development or POLS 345 Community Organization and Development or ANTH 315 Human Ecology	4
INCL 350 Culture Change or LING 312 Sociolinguistics or INCL 442 Globalization & Islamization	4
INCL 482 Senior Capstone: Intercultural Seminar	2
Major Total	22-30
Missions Concentration Requirements	Credits
MISS 241 History of the Global Christian Movement or THEL 220 History of Christianity	4
MISS 242 The Contemporary Church in Missions	4
MISS 341 Biblical and Theological Foundations of Missions	4
MISS 342 Contextualization in Missions	4
One Elective (<i>Under advisement choose from</i>):	Credits
Any prefix MISS, LING, URMN, INCL or other 300 level or above course in the curriculum with permission.	3-4
Concentration Total	19-20

Intercultural Studies Major with Spanish Concentration

BA (22-30 hrs in the major and 16 hrs in the concentration)

This concentration allows the student to progress in their fluency in Spanish. The Intercultural Studies Department recognizes that the work we prepare students for must be done in the language of the people we serve. Spanish is vital for service within all of the Americas. Students are expected to take Spanish Communication as the conversation requirement for the INCL core.

Major Requirements	Credits
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INCL 201 Introduction to Global Issues	4
INCL 243 Cultural Anthropology	4
INCL 310 Intercultural Competencies	4
INCL 311 Intercultural Experience	0-4
Conversation-level Language	0-4
INCL 346 Governance and Development <i>or</i> POLS 345 Community Organization and Development <i>or</i> ANTH 315 Human Ecology	4
INCL 350 Culture Change <i>or</i> LING 312 Sociolinguistics <i>or</i> INCL 442 Globalization & Islamization	4
INCL 482 Senior Capstone: Intercultural Seminar	2
Major Total	
Spanish Concentration Required Courses (8 hrs)	Credits
SPAN 305 Spanish Phonetics	4
SPAN 405 Civilization and Cultures of Latin America	2
SPAN 406 Civilization and Culture of Spain	2
Optional Courses (8 hrs)	Credits
SPAN 311 Hispanic World Current Affairs	4

SPAN 312 The Latino in the U.S.	4
SPAN 350 Advanced Spanish Grammar and Composition	4
SPAN 410 Advanced Conversation: Film and Culture	4
SPAN 412 Latin American Human Rights Narratives	4
SPAN 414 Faith and Society in Latin America	4
Other Spanish courses approved by the chair of the Department of World Languages and Literatures. If the course is taken abroad or through Mayterm the total number of hours must equal or exceed 16. Courses taken abroad may be substituted for the required courses.	
Concentration Total	16

Intercultural Studies Major with TESOL Concentration

BA (22-30 hrs in the major and 16 hrs in the concentration)

Without a doubt, the role of the English language has been transformed in recent years. Its use in international politics and business, in science and technology, and in the media and higher education has earned it special status in over 70 countries worldwide. Nearly a quarter of the world's population speaks this language, and it is the most widely taught foreign language in the world. Consequently, there is a great demand for competent English teachers in almost every nation in the world, including the United States. A TESOL concentration trains students to serve the international population around the world and within the United States, offering opportunities for cross-cultural service, even in countries that are closed to receiving missionaries. This is a practical key for opening the doors to our 21st century world.

Major Requirements	Credits
INCL 201 Introduction to Global Issues	4
INCL 243 Cultural Anthropology	4

INCL 310 Intercultural Competencies	4
INCL 311 Intercultural Experience	0-4
Conversation-level Language	0-4
INCL 346 Governance and Development or POLS 345 Community Organization and Development or ANTH 315 Human Ecology	4
INCL 350 Culture Change or LING 312 Sociolinguistics or INCL 442 Globalization & Islamization	4
INCL 482 Senior Capstone: Intercultural Seminar	2
Major Total	22-30
TESOL Concentration Requirements	Credits
LING 220 Introduction to Linguistics	4
LING 350 First and Second Language Acquisition	4
LING 351 Linguistics for TESOL	4
LING 371 TESOL Methods: ELA	2
LING 373 TESOL Field Experience	2
Concentration Total	16

International Development

BA (31-36 hours).

Students majoring in International Development must complete one of the following as a companion major: Art, Biology, Business, Communication, Political Science, Sociology, or Religion.

Required Courses	Credits
INCL 201 Introduction to Global Issues	4
INCL 243 Cultural Anthropology	4
INCL 310 Intercultural Competencies	4
INCL 338 Issues in Development	4
INCL 346 Governance and Development	4
POLS 212 Social Science Research Methods	4
INCL 312 Field Experience in Development	2-4
INCL 482 Senior Seminar or INCL 484 Integrative Senior Seminar	(2) or (4)
Total	28 - 32
One course from the following courses:	Credits
POLS 345 Community Organization and Development	4
SOC/ANTH 315 Human Ecology	4
INCL 347 Development Communication and Grant Writing	4
INCL 348 Foundations of Health Development	4

Study Abroad course by advisor approval: Go ED course, Go ED Economic development course, Special Topic: Relief and Humanitarian Affairs	3-4
Major Total	31 - 36

MINORS

Intercultural Studies

4 Courses; 12 - 16 hours.

Required Courses	Credits
INCL 201 Introduction to Global Issues	4
INCL 243 Cultural Anthropology	4
INCL 310 Intercultural Competencies	4
INCL 311 Intercultural Experience	0-4
<i>The INCL 311 Experience should be the last course of the minor, and must have INCL 310 as prerequisite.</i>	
Total	12 - 16

International Development

15 - 16 hours.

The International Development minor equips students with basic critical-analytical skills and contextual knowledge needed to understand and address practical problems of sustainable development anywhere in the world. The minor is grounded in a Christian worldview and therefore pursues ideas and approaches to development that hold the promise of holistic transformation within communities and institutions and seeks to correct the injustices associated with poverty, oppression, and inequality.

Required Courses	Credits
INCL 201 Introduction to Global Issues	4

INCL 338 Issues in Development	4
INCL 346 Governance and Development	4
Optional Courses (<i>Choose one of the following courses</i>)	Credits
POLS 212 Social Science Research Methods	4
ECON 210 Principles of Microeconomics <i>and</i> ECON 211 Principles of Macroeconomics	2, 2
INCL 345 Peacebuilding: Genocide and Religious Diversity (Go ED)	3
POLS 345 Community Organization and Development	4
INCL 347 Development Communication and Grant Writing	4
INCL 348 Foundations of Health Development	4
INCL 350 Culture Change	4
INCL 442 Globalization and Islamization	3-4
Minor Total	14 - 16

Linguistics

16 hours

This minor is taught in conjunction with the Summer Institute of Linguistics and Wycliffe Bible Translators. These linguistics courses are also offered as an optional concentration in the Intercultural Studies major.

Required Courses	Credits
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LING 220 Introduction to Linguistics	4
LING 322 Phonetics	4
LING 323 Phonology I	4
LING 333 Grammar I	4
Total	16

Linguistics courses are useful to anyone expecting to learn or work with languages. A few examples are: foreign language majors, English as a second language students, people interested in TESOL as a career, people interested in missions and international business, and education majors facing multilingual classrooms. Philosophy and psychology students find the areas of semantics and phonology to overlap with their fields of interest. Math majors have found the analysis procedures of linguistics to require similar thinking skills to higher mathematics, and linguistics has provided them a real world application of mathematics training.

Missions

14 - 15 hours

Mission preparation takes multiple paths at Houghton because 21st century missions is so diverse. The breadth of liberal arts opens knowledge and skills appropriate for today's world. Our students join the long tradition from here and partner with the expanding global church in serving Christ in today's world. Students who take the missions minor have majored (or double majored) in everything from Bible, music, and psychology to education and more. Other minor options for missions careers include International Development, Linguistics, TESOL and Islamic Studies. Everything about Houghton – the faculty, the missions representatives, the students and general campus and community ethos point to excellent preparation for missions.

Most students who minor in missions will include the highly recommended Cross-Cultural Field Experience in addition to the regular course work.

Required Courses	Credits
MISS 241 History of the Global Christian Movement <i>or</i> THEL 220 History of Christianity	4
MISS 242 Missions and the Global Church	4

MISS 341 Biblical & Theological Foundations of Mission <i>and/or</i> MISS 342 Contextualization in Missions	4 - 8
Electives	Credits
<i>If take only MISS 341 OR 342 choose INCL 310 Intercultural Competencies or appropriate course from INCL, MISS, THEL prefix through advisement of INCL chair.</i>	4
Minor Total	16

Public Health

14 hours

The minor in Public Health is an introduction to the field of global public health, which entails options and policies within the domestic and international context. Its purpose is to provide a Christian liberal arts perspective to understanding the domains of public health which facilitate the well-being of communities and populations in a holistic and sustainable way. The minor follows the guidelines of the “Undergraduate Public Health Learning Outcomes” published by the *Association of Schools of Public Health*. The minor has a common core for all students and is then structured from the elective courses to best complement the student’s major.

Required Courses	Credits
INCL 348 Foundations of Health Development (Mayterm)	4
BIOL 232 Epidemiology (Mayterm)	2
Electives (<i>Choose a total of 8 hours from the following courses</i>)	Credits
INCL 310 Intercultural Competencies*	4
INCL 347 Development Communication and Grant Writing*	4
INCL 295 ST: Introduction to Public Health	2 - 4

ANTH/SOC 315 Human Ecology**	4
PSY 307 Statistics I and PSY 308 Statistics II or PSY 309 Statistics	4
CHEM 187 Introduction to Nutrition** and CHEM 188 Introduction to Nutrition Lab	3, 1
BIOL 2xxx or higher (with advisement) (BIOL 380 Pathogenic Microbes recommended - has prerequisite)	4
POLS 345 Community Organization and Development	4
Total credits	14
<i>*Recommended for Biology majors and other non-INCL majors</i>	
<i>**Recommended for INCL majors and other non-biology majors</i>	
Other considerations:	
CHEM 187 and 188 Introduction to Nutrition be taken as an IS elective	
COMM 101 Presentational Speaking be taken as an IS elective.	
MATH 131 Principles of Statistics be taken as the IS Math requirement when possible.	
Non-biology majors may also choose to use the IS Creation requirement to take a Biology course.	

TESOL

Teaching English to Speakers of Other Languages - 20 hours

Without a doubt, the role of the English language has been transformed in recent years. Its use in international politics and business, in science and technology, and in the media and higher

education has earned it special status in over 70 countries worldwide. Nearly a quarter of the world's population speaks this language, and it is the most widely taught foreign language in the world. Consequently, there is a great demand for competent English teachers in almost every nation in the world, including the United States.

A minor in TESOL trains students to serve the international population around the world and within the United States, offering opportunities for cross-cultural service, even in countries that are closed to receiving missionaries. This is a practical key for opening the doors to our 21st century world.

Required Courses	Credits
LING 220 Introduction to Linguistics	4
LING 351 Linguistics for TESOL	4
LING 350 First and Second Language Acquisition	4
LING/EDUC 371 TESOL Methods: ELA	2
LING 373 TESOL Field Experience	2
COMM/ANTH 225 Intercultural Communication <i>or</i> INCL/ANTH 310 Intercultural Competencies	4
Minor Total	20

Department of Interdisciplinary Studies

Susan Bruxvoort Lipscomb, Director of Humanities

FACULTY

Susan Bruxvoort Lipscomb

MAJORS

Humanities

34 - 45 hours

The interdisciplinary major in humanities consists of an equal emphasis on courses selected from the departments of history, literature, and philosophy. The major encourages students to learn the methodologies of several disciplines, to trace interrelationship among disciplines, and to study common themes and issues from a variety of perspectives. Intensive and extensive study in the intellectual, social, and aesthetic movements of Western culture culminates in a senior project in which the student has the opportunity to synthesize some of the developments that he or she studies.

Students majoring in humanities often look toward careers in a wide variety of professional fields such as church-related ministry (pre-seminary), law, education (elementary, secondary, or college), linguistics/translation, missions, medicine, business, finance, counseling, government service, public administration, journalism, library science, relief work, or just about any other field of work. This major often appeals particularly to students with a broad range of intellectual interests and with a desire to study widely as well as in depth. The major involves the departments of History and Political Science, English and Writing, World Languages and Literatures, Art, Music, Biblical Studies, Theology and Philosophy.

Required Courses	Credits
Literature (one course may be in a modern foreign language)	9 - 12
History	9 - 12
Philosophy	9 - 12
Art History or Music History	3 - 4

Elective (with consent of advisor)	3 - 4
Senior Capstone: Humanities Project	1
Total	34 - 45

Interdisciplinary Studies

BA/BS (33-52 hours)

This major is for students who wish to pursue a multidisciplinary study not already offered by the college. The major enables students to integrate two or more areas of study or pursue a topic that crosses the boundaries of multiple disciplines. Recipients of this degree will not be certified in any major field; the major on the transcript will be Interdisciplinary Studies.

Interested students must fill out an application (available in the Academic Records Office) and create a proposal including a name for the course of study, rationale for the cohesiveness, and an explanation of how it meets the student's educational or vocational goals. Applicants may not be on academic probation.

The application must be approved by the department chairs of the selected areas (in consultation with appropriate departmental faculty), the Director of Academic Records, the Director of Integrative Studies, and the Office of the Academic Dean. The Academic Dean's Office will report these approvals to the Academic Council, which will in turn report them to the faculty. Proposals will not be considered approved until this reporting is completed.

MINORS

Data Science

Four courses, totaling 14 – 16 credits

Required Courses	Credits
DSCI 211 Data Science I	4
DSCI 212 Data Science II	4
<i>Two courses from the following list. At least one must be in programming or statistics.</i>	6-8
CSCI 211 Programming I	4
CSCI 218 Programming II	4

BADM/PSY 309 Statistics	3,4
COMM 232 Introduction to Web Communication	4
ART/COMM 224 Time, Motion, and Communication	4
ART 245 Graphic Design I	4
COMM 314 New Media and Society	4
An approved Special Topics course	2-4

Military Leadership (ROTC at Houghton/through St Bonaventure University - Army)

Minimum of 12 hours of MSL coursework and contract with U.S. Army leading to rank of 2nd Lieutenant

Houghton Faculty advisor: John F. VanWicklin

Houghton College students may participate in ROTC [Reserve Officer Training Corps] through a cross-enrollment agreement with St Bonaventure University. Two hours of military science are offered each semester that combine academic coursework and practical field experiences designed to enhance self-confidence, discipline, initiative, and responsibility. 100 and 200 level courses are offered on the Houghton campus to any interested student without obligation to the Army. Up to 8 hours of Houghton graduation credit can be earned this way. 300 and 400 level courses, offered on the SBU campus, are open only to students under contract with the U.S. Army. Houghton students have done well in competition for scholarships which cover full tuition and books plus a modest living allowance.

Rebekah B. Johnson Yates, chair | Mark E. Yuly, Interim Area Associate Dean

585.567.9280

Overview

The mathematics major comprises coursework in mathematical concepts and computation with growing attention to the centrality of mathematical reasoning and proof. The major prepares students to work both collaboratively and independently and develops facility with both oral and written communication of mathematics. This combination of content, reasoning, and communication skills prepares students for a wide variety of vocations, including careers in education, industry, actuarial science, finance, computer science, health professions, and linguistics. Many students pursue advanced degrees in diverse areas such as mathematics, applied mathematics, education, architecture, law, health professions, and computer science.

Teaching Mathematics - Inclusive Childhood (elementary) or Adolescence (secondary). See Education.

FACULTY

Brandon Bate

Jason Bintz

Jill E. Jordan

Rebekah B. Johnson
Yates

MAJORS

Mathematics

BA (32 hours in major; 4-8 prerequisites; 4 co-requisites)

Prerequisite	Credits
MATH 181 Calculus I <i>OR</i>	4
MATH 170/171 Calculus I with Pre-calculus A <i>and</i> B	4,4
Co-requisites	Credits

Choose cognate course(s) to equal 3-4 hours from Investment management (BADM 302), Marketing research (BADM 319), Financial management (BADM 406), General Chemistry I (CHEM 151), Programming I (CSCI 211), Intro to Economics and Principles of Microeconomics (ECON 201, ECON 210), Intro to Economics and Principles of Macroeconomics (ECON 201, ECON 211), Advanced French Grammar and Composition (FREN 350), Intro to Linguistics (LING 220), any Music Theory course (MTH XXX), Logic and Critical Thinking (PHIL 222), History and Philosophy of Science (PHIL 360), General Physics I (PHYS 151), or Advanced Spanish Grammar and Composition (SPAN 350). Students are encouraged to select additional courses from the cognate list.	4
Required Courses	Credits
MATH 182 Calculus II	4
MATH 210 Introduction to Proofs	2
MATH 261 Linear Algebra	4
MATH 361 Abstract Algebra I	4
MATH 325 Real Analysis I	4
MATH 482 Senior Capstone: Mathematics Seminar	4
Mathematics Electives (above 210): <i>At least 4 hours must be at 300 or 400 level</i>	10
Total	32
Note	
Often, math majors will take more math courses than the preceding minimum requirement. This is strongly recommended for those planning to go to graduate school.	
It is highly recommended that teachers of math choose MATH 218 History of Mathematics, MATH 333 Probability and Statistics I, and MATH 351 Modern Geometries.	

MINORS

Mathematics

12 hours of credit in mathematics courses numbered 182 and higher.

Marcus W. Dean, Director

585.567.9634 | OCS@houghton.edu

Overview

Houghton College students have access to several unique opportunities as outlined in the academic information section earlier in the catalog. Some are operated entirely by Houghton College, others in cooperation with the Council for Christian Colleges and Universities or the Christian College Consortium. Houghton's own opportunities are under the general direction of the academic dean and are staffed by faculty of various academic departments, as per the needs of each opportunity. More detailed information is available through the Off-Campus Opportunities Office located in the Chamberlain Center, Room 413.

Participating in an off-campus opportunity is an academic privilege that can enhance the student's education. Because of the additional demands faced in the off-campus setting, students are required to have a 2.5 or higher GPA to participate in any off-campus opportunity. Several of Houghton's opportunities require a 2.75 GPA.

Consortium Visitor: Houghton has agreements with most of the other 12 colleges in the Christian College Consortium to allow single-semester visiting student status at another college. For information on the opportunities, requirements, and essential paperwork, contact to the Academic Records Office.

HOUGHTON OFF CAMPUS

Go ED Africa

Off Campus Opportunity (15 possible credits)

Campus Contact: Ronald J. Oakerson

Go ED is a semester abroad opportunity sponsored by a non-profit community development group focused on transforming the next generation to own and end poverty. Taught from a Christian perspective, students learn about the complexities of their discipline in a real world context from experts who are academically, professionally and spiritually qualified. Learning format includes lectures, field trips, and field work. Experience in applying theory to real problems is emphasized. Houghton College is an accrediting institution for this opportunity which is offered both fall and spring semesters at Go ED sites in Africa and the Mekong region of South East Asia. All courses receive Houghton credit. Visit the opportunity's web site at www.go-ed.org.

Go ED Africa takes place in East Africa, primarily in Uganda and Rwanda. Placements may also be in Ethiopia.

COURSES

ANTH 340 African Traditional Culture and Religion

3-F&S

This course deals with an overview of African traditional cultures and religion (ATR) as well as the challenges African cultures pose to Christians in Africa. Topics to be covered will include: the concept of culture, social groupings, ATR, characteristics of ATR, sources of ATR, African world view, basic values, religious leaders, mystical forces, African religious experience, ethics, ethics and morality, death and hereafter. Attention will also be focused on some specific societies. The changes currently taking place today will also be considered.

INCL 254 African Cultural Arts

3-F&S

This course explores the African arts as both cultural expression and cultural epistemology (a way of engaging and knowing the world that differs from Western empiricism and consumerism). It provides hands-on experience of the ways in which the arts can serve as agent of cultural preservation as well as cultural transformation. It seeks to guide students in the exploration of the spiritual, philosophical, social, and psychological drivers of the cultural arts in order to gain a deeper appreciation of diversity and human creativity. Students will be introduced to a broad array of artistic expression and media in Africa under the guidance of local experts and artistes (e.g. visual arts, music, hand crafts, culinary arts, dance, storytelling, and other performing arts). Students will come to appreciate the unique role and effectiveness of the arts in culture (e.g. prophetic confrontation of injustice in the status quo, or communicating in ways that overcome linguistic barriers, etc.) and gain a new sense of the irreducible value of the arts for life and development. The course has

INCL 319 Cross-Cultural Field Practicum

3-F&S

This course in the Go ED program is described as providing \"hands on\" cross-cultural experience with community development work in the field. Students will be exposed to international development programs and have the opportunity to work in cross-cultural work environments and contribute meaningfully to their assigned program. Students will begin to assess their own ability to live and work in cross-cultural settings as well as be introduced to the challenges faced in the millennial development goals. Available in Ethiopia, Rwanda, Kenya, and Uganda. Can substitute for INCL 311 for INCL majors/minors and ICE with INCL concentration. Liberal Arts."

INCL 340 African Traditional Culture and Religion

3-F&S

This course deals with an overview of African traditional cultures and religion (ATR) as well as the challenges African cultures pose to Christians in Africa. Topics to be covered will include: the concept of culture, social groupings, ATR, characteristics of ATR, sources of ATR, African world view, basic values, religious leaders, mystical forces, African religious experience, ethics, ethics and morality, death and hereafter. Attention will also be focused on some specific societies. The changes currently taking place today will also be considered.

INCL 345 Peacebuilding: Genocide and Religious Diversity

3-F&S

Students will study the ethnic conflicts of Rwanda as a means of learning issues in the healing of trauma (both personal and social) and the processes of building peace and establishing reconciliation. The history of Rwanda is important in understanding the basis of genocide. As students learn about the reconstruction process, they will discover the roles played by the state, church and nongovernmental organizations. Students will also consider the current social challenges brought on by the increasing presence of Islam in Rwanda and discuss the role of the international community both during the genocide and during the rebuilding process. Students will have the opportunity to interact with individuals who have experienced these human tragedies. Liberal Arts.

INCL 381 Social Context for Community Development

3-F&S

This course is an introduction to development and development theory. Students will acquire knowledge of and the ability to apply a variety of development strategies and methods. During the field component of the course students will be exposed to programming and sites where they will be able to apply the content material for assessing and recommending program alterations within the context of specific communities. Students will become acquainted with the Millennial Development Goals and their relevance to the area situations. Students will be exposed to a variety of strategies designed to involve members of the community in the process of development. Strategies for funding community development projects locally and internationally are explored.

POLS 344 Peacebuilding: Genocide and Religious Diversity

3-F&S

Students will study the ethnic conflicts of Rwanda as a means of learning issues in the healing of trauma (both personal and social) and the processes of building peace and establishing reconciliation. The history of Rwanda is important in understanding the basis of genocide. As students learn about the reconstruction process, they will discover the roles played by the state, church and nongovernmental organizations. Students will also consider the current social challenges brought on by the increasing presence of Islam in Rwanda and discuss the role of the international community both during the genocide and during the rebuilding process. Students will have the opportunity to interact with individuals who have experienced these human tragedies. Liberal Arts.

Go ED Mekong

Off Campus Program (15 credits)

Campus Contact: Ronald J. Oakerson

Go ED is a semester abroad opportunity sponsored by a non-profit community development group focused on transforming the next generation to own and end poverty. Taught from a Christian perspective, students learn about the complexities of their discipline in a real world context from experts who are academically, professionally and spiritually qualified. Learning format includes lectures, field trips, and field work. Experience in applying theory to real problems is emphasized. Houghton College is an accrediting institution for this opportunity which is offered both fall and spring semesters at Go ED sites in Africa and the Mekong region of South East Asia. All courses receive Houghton credit. Visit the program's web site at www.go-ed.org.

Go ED Mekong takes place primarily in Thailand. Placements may also be in Cambodia, Bangladesh, the Philippines, or other South East Asian countries.

COURSES

ANTH 256 History, Religion, & Society of the Mekong Region

3-F&S

This course provides an introduction of the historical and social context of the Mekong subregion of South East Asia and explores the dynamics between religious, political, and other social foundations and contemporary forces of change. The course begins with a survey of the major religions of the region (chiefly Buddhism and tribal Animism) and their enduring influence of worldview and culture. The course proceeds with a survey of regional history from ancient times (including the La Na kingdom, of particular significance to Chiang Mai's heritage) through nation building and international relations to the emergence of globalization. Students will be guided to explore the influence of intangible factors on tangible institutions and historical events. The course includes several excursions to nearby sites and guest lectures to ground the knowledge of the Mekong region with an experiential sense of place and perspective. Liberal Arts.

INCL 255 Thai Cultural Arts

3-F&S

This course explores the Thai arts as both cultural expression and cultural epistemology (a way of engaging and knowing the world that differs from Western empiricism and consumerism). It provides hands on experience of the ways in which the arts can serve as an agent of preservation as well as an agent of transformation in culture. It seeks to guide students in the exploration of the spiritual, philosophical, social, and psychological drivers of the cultural arts in order to gain a deeper appreciation of diversity and human creativity. Students will be introduced to a broad array of artistic expression and media in Thailand under the guidance of local experts and artists (including visual arts, music, hand crafts, culinary arts, dance, Likay, and other performing arts). Students will come to appreciate the unique role and effectiveness of the arts in culture (e.g. prophetic confrontation of injustice with the status quo, or communicating in ways that overcome linguistic barriers, etc.) and gain a new sense of value of the arts for their life and work. The course has a high emphasis on participation and reflection.

INCL 256 History, Religion, & Society of the Mekong Region

3-F&S

This course provides an introduction of the historical and social context of the Mekong subregion of South East Asia and explores the dynamics between religious, political, and other social foundations and contemporary forces of change. The course begins with a survey of the major religions of the region (chiefly Buddhism and tribal Animism) and their enduring influence of worldview and culture. The course proceeds with a survey of regional history from ancient times (including the La Na kingdom, of particular significance to Chiang Mai's heritage) through nation building and international relations to the emergence of globalization. Students will be guided to explore the influence of intangible factors on tangible institutions and historical events. The course includes several excursions to nearby sites and guest lectures to ground the knowledge of the Mekong region with an experiential sense of place and perspective. Liberal Arts.

INCL 314 Exclusion and Exploitation: Marginal people of the Mekong

3-F&S

This course examines the exclusion and exploitation of people in the Greater Mekong Sub-region (GMS). Topics to be covered include: Identifying the various groups of people who are marginalized in the GMS and the basis of their exclusion (including race, ethnicity, nationality, citizenship, gender, religion, economic status, and other factors); Describing the types of injustice faced (including poverty, human rights violations, discrimination, prejudice, genocide, persecution, labor exploitation, trafficking, prostitution, forced migration of IDPs, refugees and economic refugees); Examining the history, context and causes of exclusion and exploitation; and analyzing indigenous, governmental, NGO, and faith-based responses. Liberal Arts.

INCL 319 Cross- Cultural Field Practicum

3-F&S

This course in the Go ED opportunity is described as providing \"hands on\" cross-cultural experience with community development work in the field. Students will be exposed to international development programs and have the opportunity to work in cross-cultural work environments and contribute meaningfully to their assigned program. Students will begin to assess their own ability to live and work in cross-cultural settings as well as be introduced to the challenges faced in the Millennial Development Goals. Potential sites include Thailand, Cambodia, Bangladesh, the Philippines, and other South East Asian countries. Can substitute for INCL 311 for INCL majors/minors and ICE with INCL concentration. Liberal Arts."

INCL 381 Social Context for Community Development

3-F&S

This course is an introduction to development and development theory. Students will acquire knowledge of and the ability to apply a variety of development strategies and methods. During the field component of the course students will be exposed to programming and sites where they will be able to apply the content material for assessing and recommending program alterations within the context of specific communities. Students will become acquainted with the Millennial Development Goals and their relevance to area situations. Students will be exposed to a variety of strategies designed to involve members of the community in the process of development. Strategies for funding community development projects locally and internationally are explored.

SOC 381 Social Context for Community Development

3-F&S

This course is an introduction to development and development theory. Students will acquire knowledge of and the ability to apply a variety of development strategies and methods. During the field component of the course students will be exposed to programming and sites where they will be able to apply the content material for assessing and recommending program alterations within the context of specific communities. Students will become acquainted with the Millennial Development Goals and their relevance to area situations. Students will be exposed to a variety of strategies designed to involve members of the community in the process of development. Strategies for funding community development projects locally and internationally are explored.

Houghton in Tanzania

Off Campus Opportunity (12 - 18 hours)

Director: Eli Knapp

An intensive spring semester experience, Houghton in Tanzania offers the unique opportunity to study anthropology, history, animal ethology, linguistics, intercultural studies and ecotourism in East Africa. Students will visit the Wahehe, Masaai and other tribes, observe dozens of animal species in natural habitat, and develop an understanding of the history, language and culture of East Africa.

During the semester in Tanzania, a student may earn between 12 and 18 hours.

INCL 311 Intercultural Experience may be taken as an optional course during the Tanzanian semester. Other Special Topic and Independent Study credits may be available on given years when schedule permits.

COURSES

ANTH 293 East African Cultures

4-S

Intensive study of East African ethnic groups â€” their beliefs, behaviors, work, societies. Lectures, which include foundational anthropological theory as well as ethnic descriptions, are augmented by observations and home stays amongst the Massai, Kelenjin, Murle, Hehe or other peoples. Sociology, Intercultural Studies elective credit. Houghton in Tanzania Program. Liberal Arts.

ANTH 315 Human Ecology

4-F

Integrates knowledge from several disciplines and seeks to combine the social and natural sciences. Theory will be interwoven with basic concepts and emphasis will be upon how humans viewâ€”and interact withâ€”the natural environment. Themes and topics to be studied include: control, complexity/simplification, sustainability, adaptation, place, mechanization, efficiency/inefficiency, centralization/decentralization, resilience, parks, economies of scale, specialization/diversification, and poverty. These themes will be discussed in relation to five basic human societies: hunting & gathering, pastoral, agricultural, industrial, and

BIOL 207 Wildlife Behavior in East Africa

4-S

Ethnology of East African wildlife including the principles of feeding and social behavior, mate selection, migrations and communication. Lectures and two weeks of field observations at the Tanzania Field Station. Houghton in Tanzania Program. Creation: Lab science or 2nd science. Liberal Arts.

ENGL 390 ST: African Folk Lore

2-4-S

Africa has a rich heritage of oral literature. In recent years much of this has been recorded, translated and published. This course is primarily a reading course while in the African setting. Students will examine stories from many ethnic groups in genres such as etiological stories, trickster tales, myths and morality tales. The students will write short papers on each genre with a longer comprehensive term paper at the end of the course. Optional Houghton in Tanzania Program course. Liberal Arts.

MISS 395 ST: Missions in Africa

2-4-WSP

The Gospel in East Africa. Exploration of the receptivity of African Christians to the Gospel from first hand encounter with African Christians and church leaders. Analysis of traditions, practice, forms and experiences. Also, an examination of strategies for furthering the Gospel including varieties of missionary methods. First hand contact with numerous missionary efforts. Clear view of the impact of Christianity and the ongoing challenges in East Africa. Missions, Intercultural Studies or elective credits. Prerequisite: previous course work in missions or permission of instructor. Optional Houghton in Tanzania Program course.

SOC 293 East African Cultures

4-S

Intensive study of East African ethnic groups â€” their beliefs, behaviors, work, societies. Lectures, which include foundational anthropological theory as well as ethnic descriptions, are augmented by observations and home stays amongst the

SOC 315 Human Ecology
4-F

Integrates knowledge from several disciplines and seeks to combine the social and natural sciences. Theory will be interwoven with basic concepts and emphasis will be upon how humans view and interact with the natural environment. Themes and topics to be studied include: control, complexity/simplification, sustainability, adaptation, place, mechanization, efficiency/inefficiency, centralization/decentralization, resilience, parks, economies of scale, specialization/diversification, and poverty. These themes will be discussed in relation to five basic human societies: hunting & gathering, pastoral, agricultural, industrial, and

Online
Tabular Listing of Off-Campus Opportunities (data is subject to change)

Students studying in the off-campus opportunities listed below may qualify to receive federal and state financial aid.

Houghton Opportunities	HC Catalog Courses	Grades on Transcript	HC Fin Aid Awarded	Qualifies Mayterm
Honors: Contemporary Contexts	Yes	Yes	Yes	Yes
First Year Honors: East Meets West Honors	Yes	Yes	Yes	Yes
Go ED (Africa and Mekong)	Yes	Yes	Yes	Yes
Houghton Down Under	Yes	Yes	Yes	Yes
Houghton: Balkans Semester	Yes	Yes	Yes	Yes
Houghton in London	Yes	Yes	Yes	Yes
Houghton in Tanzania	Yes	Yes	Yes	Yes

Council for Christian Colleges & Universities	HC Catalog Courses	Grades on Transcript	HC Fin Aid Awarded	Qualifies Mayterm
American Studies (Washington, DC)	Yes	Yes	No	No
China Studies	Yes	Yes	No	No
Contemporary Music Center	Yes	Yes	No	No
LA Film Studies(Los Angeles)	Yes	Yes	No	No
Latin American Studies (Costa Rica)	Yes	Yes	No	No
Middle East Studies	Yes	Yes	No	No
Oxford Summer School	Yes	Yes	No	No
Affiliated Opportunities	HC Catalog Courses	Grades on Transcript	HC Fin Aid Awarded	Qualifies Mayterm
ALIF (Arabic Language Institute in Fez, Morocco)	No	No	No	No
AuSable Institute of Environmental Studies	Yes	Yes	No	No
Chez Vous	Yes	Yes	No	No
CCSP (Creation Care Study Program)	Yes	Yes	No	No
International Business Institute	Yes	Yes	No	No

NOLS (National Outdoor Leadership School)	No	No	No	No
Rochester Area Colleges	No	Yes	N/A	No
TIMO (Training in Ministry Outreach)	Yes	Yes	No	No
WNYHE Consortium	No	Yes	N/A	No
Study Abroad (Transfer Credits)	HC Catalog Courses	Grades on Transcript	HC Fin Aid Awarded	Qualifies Mayterm
BCA Study Abroad	No	No	No	No
Budapest Semester in Mathematics	No	No	No	No
Center for Cross-Cultural Studies	No	No	No	No
Central College Abroad (IA)	No	No	No	No
Christian College Consortium Visitor	No	No	No	No
Daystar University - Kenya	No	No	No	No
Laval Language Institute (QB)	No	No	No	No
Trinity Christian (Seville, Spain)	No	No	No	No

For information about opportunities not affiliated with Houghton College, please consult with the Off-Campus Opportunities or Academic Records Office.

Houghton: Balkans Semester

ART 348 Fine Arts of Southeastern Europe

4-WSP

Art history of Catholic southern Europe and especially of the Venetian Empire, principally painting and architecture. Comparison is made with the art and iconography of Orthodox Europe, especially of Serbia and Macedonia. Some study of Ottoman Muslim art during time in Bosnia. Houghton Balkans Semester Program.

ENGL 345 Literatures of the Cultures of Central and Southeastern Europe

4-WSP

Introduction to and survey of the literatures of central, eastern and southeastern Europe including samples from Catholic, Orthodox, and Muslim cultures. The course will cover a selection of novels, essays, and poetry. Houghton Balkans Semester Program.

HIST 347 The Balkans and Eastern Europe: Early Middle Ages to Present

4-WSP

A survey of the history of Balkan and Eastern European history with special emphasis upon the interactions of Catholic, Orthodox, and Muslim cultures; ethnic and religious diversity; the fraught relationship with western Enlightenment and post-Enlightenment ideas; and mutually exclusive nationalist interpretations. Houghton Balkans Semester Program.

THEL 346 Elements of Catholic, Muslim and Orthodox Theology

4-F

An examination of the development of Catholic and Orthodox theology and practices from the early Middle Ages with a particular emphasis upon major figures, and differences between the traditions. An introduction will be given to Islam with particular attention paid to Christian-Muslim interaction from the seventh century through to modern times and to syncretistic folk religion, the dervish, etc. Houghton Balkans Semester Program. Prerequisite(s): THEL 209

Houghton Down Under

ART 238 Art and Music in Australia and New Zealand

4-WSP

Art, architecture, and music in context in Australia and New Zealand. Examines the interaction of Western and indigenous cultural styles and the influence of local and national conditions on the arts. Readings, journal-keeping, and questions pertaining to site-specific works are required. Major credit: Intercultural Studies. Culture: Music or Art. Liberal Arts.

INCL 238 Art and Music in Australia and New Zealand

4-WSP

Art, architecture, and music in context in Australia and New Zealand. Examines the interaction of Western and indigenous cultural styles and the influence of local and national conditions on the arts. Readings, journal-keeping, and questions pertaining to site-specific works are required. Major credit: Intercultural Studies. Culture: Music or Art. Liberal Arts.

INCL 301 Engaging Australian and New Zealand Culture

4-WSP

Reading history, literature, and cultural analysis of the various cultures of Australia and New Zealand will combine with relating to locales and people through study, discussion, and service projects. Incorporates travel, homestays, and involvement in local cultural activities. Liberal Arts.

INCL 328 Community and Society in Australia and New Zealand

4-WSP

Examines social institutions in urban Australia and New Zealand. Analyzes social problems and institutional and community responses by churches and faith-based organizations, and compares them with those of governments, non-government organizations and prosocial community organizations. Major/minor credit: ministry, missions, urban ministry, psychology, sociology. Community: Psychology or Sociology. Liberal Arts.

INCL 329 Australia and New Zealand Culture through Film

4-WSP

Since creating the first feature-length film in the world, Australian film-makers have examined themselves, their culture, their environment, and their interactions with the rest of the world in varied and distinctive ways, often with a gloss of revealing humor. Through the films studied in this class, students will be introduced to the diversity of Australia and New Zealand culture, from pre-historical aboriginal and Maori to postmodern. Major credit: Intercultural Studies, Psychology, Sociology. Community: Psychology or Sociology. Liberal Arts.

MIN 328 Community and Society in Australia and New Zealand

4-WSP

Examines social institutions in urban Australia and New Zealand. Analyzes social problems and institutional and community responses by churches and faith-based organizations, and compares them with those of governments, non-government organizations and prosocial community organizations. Major/minor credit: ministry, missions, urban ministry, psychology, sociology. Community: Psychology or Sociology. Liberal Arts.

MISS 328 Community and Society in Australia and New Zealand

4-WSP

Examines social institutions in urban Australia and New Zealand. Analyzes social problems and institutional and community responses by churches and faith-based organizations, and compares them with those of governments, non-government organizations and prosocial community organizations. Major/minor credit: ministry, missions, urban ministry, psychology, sociology. Community: Psychology or Sociology. Liberal Arts.

PSY 328 Community and Society in Australia and New Zealand

4-WSP

Examines social institutions in urban Australia and New Zealand. Analyzes social problems and institutional and community responses by churches and faith-based organizations, and compares them with those of governments, non-government organizations and prosocial community organizations. Major/minor credit: ministry, missions, urban ministry, psychology, sociology. Community: Psychology or Sociology. Liberal Arts.

PSY 329 Australia and New Zealand Culture through Film

4-WSP

Since creating the first feature-length film in the world, Australian film-makers have examined themselves, their culture, their environment, and their interactions with the rest of the world in varied and distinctive ways, often with a gloss of revealing humor. Through the films studied in this class, students will be introduced to the diversity of Australia and New Zealand culture, from pre-historical aboriginal and Maori to postmodern. Major credit: Intercultural Studies, Psychology, Sociology. Community: Psychology or Sociology. Liberal Arts.

SOC 328 Community and Society in Australia and New Zealand

4-WSP

Examines social institutions in urban Australia and New Zealand. Analyzes social problems and institutional and community responses by churches and faith-based organizations, and compares them with those of governments, non-government organizations and prosocial community organizations. Major/minor credit: ministry, missions, urban ministry, psychology, sociology. Community: Psychology or Sociology. Liberal Arts.

SOC 329 Australia and New Zealand Culture through Film

4-WSP

Since creating the first feature-length film in the world, Australian film-makers have examined themselves, their culture, their environment, and their interactions with the rest of the world in varied and distinctive ways, often with a gloss of revealing humor. Through the films studied in this class, students will be introduced to the diversity of Australia and New Zealand culture, from pre-historical aboriginal and Maori to postmodern. Major credit: Intercultural Studies, Psychology, Sociology. Community: Psychology or Sociology. Liberal Arts.

URMN 328 Community and Society in Australia and New Zealand

4-WSP

Examines social institutions in urban Australia and New Zealand. Analyzes social problems and institutional and community responses by churches and faith-based organizations, and compares them with those of governments, non-government organizations and prosocial community organizations. Major/minor credit: ministry, missions, urban ministry, psychology, sociology. Community: Psychology or Sociology. Liberal Arts.

AFFILIATED OFF CAMPUS

Au Sable Institute of Environmental Studies

Affiliated Off Campus Mayterm and summer

Au Sable Institute, a Christian environmental learning center, offers Houghton students Mayterm and summer courses in biology, chemistry, geology and geography. Headquartered in Michigan. Participants take courses, engage in scholarship, gain field experience, confer, and develop practical tools for environmental stewardship in programs that take seriously both science and theology. The Au Sable website (<http://ausable.org/courses/>) gives the complete listing of courses and programs. Scholarship assistance is available to students at Council-member colleges.

All Au Sable courses taken through Houghton are registered as a science area special topics course. Approval is needed through the appropriate department (usually Biology) working with the Au Sable faculty representative (Dr. James Wolfe in Biology) and Houghton's Off-campus Programs Office. A maximum of eight hours may be applied toward a major. Additional courses may be used for elective credit. Through a combination of courses taken at Houghton and Au Sable, a student may earn certification from Au Sable as one of the following: environmental analyst, land resources analyst, water resources analyst or naturalist. Certification requires a minimum of three approved courses to be taken in residence at the Institute. Specific requirements for particular certificates may be obtained from Dr. Wolfe and the Institute.

Au Sable Institute of Environmental Studies offers environmental science programs for students and adults of all ages: primary and secondary school, college, and graduate school. Our academic program offers field-based, university-level courses in environmental studies and environmental

science at campuses in the Great Lakes region (Mancelona, MI), Pacific Northwest (Whidbey Island, WA), South India (Thiruchirapalli, Tamil Nadu), and Latin America (Vara Blanca, Costa Rica)

Chez Vous

Affiliated Off Campus summer opportunity

The Chez Vous summer opportunity is a relational language-study experience, organized into 6 different study tracks from Intermediate to Advanced language levels. Each track is about 6 weeks long and contains 2 semester courses in French. These courses progress in close harmony with the other Houghton courses. This experience offers students a fairly intense immersion into French life and language, along with multiple opportunities to connect with French people. Students also experience cultural activities, historical excursions, daily worship in French, service projects, church services, and other enriching experiences.

COURSES

FREN 210 French Grammar and Culture

4-summer

This course provides intensive work in all four language skills: speaking, listening, reading, and writing. Study includes both review and expansion of grammar and phonetics foundational to oral and written communication, along with substantial experience interacting with French culture and target-language materials.

FREN 310 French Grammar and Conversation

4-summer

This course continues to strengthen grammar comprehension while providing intensive work in all four language skills: speaking, listening, reading, and writing. Study also includes basic phonetics. Extensive language use is applied in substantial interactions with French national, culture and target-language materials.

FREN 312 French Conversation and Phonetics

4-summer

This course provides intensive practice and instruction in French conversation, listening comprehension, and phonetics, with an additional focus on expanded vocabulary. Study includes continuing work in grammar, discourse, and critical thinking skills and an orientation to informal and formal use of French. Taught in French by national professors trained in teaching French as a Second Language.

FREN 351 Advanced Stylistics and Grammar

4-summer 16

This course offers intensive work in native expression and refined grammar, enhancing students'™ ability to communicate fluidly in high-level conversations and in extended written forms. Taught in French.

FREN 361 French Civilization and Culture

4-summer 15, 17

This course concentrates on French life since WWII. Particular attention is given to social, political and economic structures, along with trends in art, media and daily living. Taught in French.

FREN 451 Advanced Conversation Themes and Phonetics

This course provides intensive practice and instruction in French conversation, particularly on the formal level and with a special focus on pronunciation and accent. Study includes continuing work in higher-level communication skills engaging abstract thoughts and concepts. Taught in French by national professors trained in teaching French as a second language.

Creation Care Study

Affiliated Off Campus Opportunity (12 - 14 credits)

Creation Care Study Program

CCSP is a 15 week residential interdisciplinary environmental studies program based in Belize and New Zealand. The core curriculum consists of three 4-credit courses: God and Nature; Tropical Ecosystems (Belize program); Ecosystems of New Zealand (South Pacific program); and Sustainable Community Development; and a 3-credit core course, Introduction to Environmental Literature. In addition, students in the Belize program can take a two-week internship (2 credits) while the New Zealand students do an experiential sustainable community development week. CCSP courses are comprised of several integrated block classes taught over the span of the semester. Both programs include extensive homestay periods. Some homestays are a part of academic courses, and others are for cross-cultural learning and program enrichment. All courses receive Houghton Credit.

Belize Program 15-17 credits

Located along the Caribbean coast of Central America, Belize is home to a host of Caribbean and Central American cultures and ethnic groups as well as inspiring ecological diversity, including neotropical rainforests, with their assortment of monkeys, jaguars and toucans, and the largest barrier reef in the western hemisphere. Within this context, CCSP students examine sustainable development and tropical ecology through a Christian lens of creation care and stewardship by utilizing field studies in Belizean villages, tropical rainforests, mountain streams and Caribbean atolls. Students also have the opportunity to take part in interest-specific internship and practicum experiences with Belizean organizations seeking regeneration and renewal of the land and communities. In Belize intrepid students together take part in a semester abroad experience like no other! Throughout the semester, the schedule also allows for independent exploration of Belize (and neighboring countries) during breaks and free weekends.

New Zealand Program 15-16 credits

From New Zealand's snow-capped mountains to its topaz coastline, students explore a wonderland of unique ecosystems. Home to about twelve percent of all the earth's endangered species and a world leading innovator in conservation and environmental management, New Zealand is an ideal place for studying care of creation. A rigorous academic semester comprised of ecology, theology, environmental literature, and sustainable community development is enhanced by a community living experience from the first day students move into CCSP's Old Convent campus, to homestays with locals. The schedule also allows for independent travel during a week-long mid-semester break and during free weekends

COURSES

Belize Internship Elective

This course, which includes a homestay experience, allows students the opportunity to begin applying the knowledge that they have gained in a practical way while in Belize. Internships are selected based upon student's area of study, interests and professional aspirations. Through journals, discussions, readings, papers and presentations, students develop a greater understanding of what it means to engage in work in their field - particularly in the developing world. (Internship or general elective credit)

Belize Tropical Ecosystems (200 course level)

In this field-based ecology course students explore with experts forest, stream, and near-shore marine environments - coral reef, mangrove, and sea grass - in Belize. In addition to studying these various ecosystems, this class is also designed to help students scientifically apprehend a broad understanding of global environmental issues. (IS Creation: Lab Science, Biology major/minor, or general elective)

BIOL 205 New Zealand Ecosystems

In this field-based ecology course students not only explore New Zealand's fascinating terrestrial and near-shore marine ecosystems, they also undertake a terrestrial ecosystems research project. In addition to studying New Zealand ecosystems this course is also designed to help students scientifically apprehend a broad understanding of global environmental issues. (IS Creation: Lab Science, Biology major/minor, or general)

ENGL 307 Environmental Literature

This course introduces students to the landscape of environmental literature, both past and present, providing a solid grounding in the field. Through key readings, discussions, and reflections of various environmental literature forms including short story, essay, and poetry, students consider what makes literature "environmental" and why this field of literature was and is so important in shaping an earthy faith, and worldview. (ENGL credit for major/minor or general elective).

INCL 305 Introduction to Sustainable Community Development

This course explores how knowledge of ecological systems, globalization, political economy, and the biblical worldview come together in the pursuit of development that is community-minded, just, and ecologically sustainable. Through readings, lectures and field trips, students study complex issues in sustainable development such as the nexus of poverty, the environment, and justice, and the many practical challenges associated with sustainable community development. (Major/minor credit for Sociology, INCL elective or optional elective for Development Concentration, or general elective).

SOC 305 Introduction to Sustainable Community Development

This course explores how knowledge of ecological systems, globalization, political economy, and the biblical worldview come together in the pursuit of development that is community-minded, just, and ecologically sustainable. Through readings, lectures and field trips, students study complex issues in sustainable development such as the nexus of poverty, the environment, and justice, and the many practical challenges associated with sustainable community development. (Major/minor credit for Sociology, INCL elective or optional elective for Development Concentration, or general elective).

Central to the mission of Creation Care Studies Program, this course helps students to develop a theology of creation that understands humans as stewards of the earth. Through the study of scripture, and other relevant texts, students explore the theology of creation, biblical stewardship, questions of faith and science, and Christian responses to current environmental problems. (THEL credit for major/minor or general elective).

International Business Institute

Affiliated Off Campus Opportunity (11 week summer program)

The International Business Institute is designed to give students in economics, business management and related areas a distinctive opportunity for a term of study that incorporates the international dimension of these fields in an experiential context overseas. The program is ten weeks in length and includes periods of residence in key locations as well as coordinated visits and presentations in the major political and economic centers of Russia, The European Union, India and China.

Students are generally eligible after the successful completion of their junior year. Under certain circumstances, sophomores and graduating seniors will be considered for admission. (Prerequisites: One year of economics, both micro and macro elements, one course in accounting or finance, one course in management, one course in marketing)

COURSES

IBI-331 Comparative Economic Systems

3-summer

A survey and critical study of comparative economic systems, their underlying ideological foundations and institutional arrangements. Prerequisites: one year of economic principles.

IBI-339 Global Marketing

3-summer

The theory and practice of current management concerns in contemporary global marketing including the international marketing environment, market research and entry, product planning and strategy; all within the distinctive cultural setting. Prerequisite: Course work in principles of marketing.

IBI-350 International Trade and Finance

This course presents the central tools, concepts and issues in modern international economics. It provides a discussion of the analytical elements of international trade, trade policy, foreign exchange markets, exchange-rate systems and international monetary policy. Special topics to be covered include regional trade agreements, globalization, international financial crises, and the challenges facing the European Union (EU) and the European Monetary Union (EMU).

IBI-357 Global Business Strategy

3-summer

This course is designed to cover the major topics normally offered in a course in international business management and strategy. It also has a very important function of enabling the integration of field experiences, corporate visits, and presentations by guest faculty with the current theoretical developments and literature in this field. Students will be expected to prepare analytical reports on the various firms and institutions

NOLS (National Outdoor Leadership School)

Affiliated Off Campus Opportunity

The National Outdoor Leadership School – NOLS – has been the leader in wilderness education since 1965. At NOLS you will learn technical outdoor skills, leadership, and environmental ethics in some of the world's wildest and most awe-inspiring classrooms. With courses ranging from 10 days to a full academic year, we attract highly motivated students who want to learn how to lead.

CCCU OFF CAMPUS

American Studies CCCU

CCCU Off Campus Study (16 credits)

At ASP, your ability to share your similarities while respecting your differences may just be the one test you never knew you'd be taking. Whether it's public policy or global development, you will engage in what it means to be in community and to be a leader. These questions have shaped our political system for over two centuries. You'll continue this conversation as you interact in a dozen on-site visits with expert scholars and policy makers. Internships, professional mentorship and service opportunities prepare you for an extraordinary and unique D.C. experience. Students earn 15-16 semester hours of credit.

CREDITS: The program recommends to the home institution that you receive the equivalent of 15 or 16 semester hours of credit, depending on your choice of options.

COURSES

Entrepreneurship & Human Development Seminar

Provides students with a detailed introduction to the unique community of partnerships emerging in Washington, D.C. among commercial, governmental, and non-governmental organizations. ASP faculty and guest practitioners provide a comparative analysis of different approaches to the design and management of these types of collaborations as they pertain to the global development issue of hunger/food security. As part of their analysis, students are required to reflect on the biblical demands of justice as they pertain to food security, and how these demands ought to be translated across the different institutional roles and responsibilities that comprise these partnerships. Course is part of the Global Development Track.

Global Development Partnership Exercise

Students will propose, research and present a project for a relief and development organization. Course is part of the Global Development Track.

Internship Placement: (14-week part-time work)

This course is an internship placement that continues across the semester. You must work a minimum average of 20 hours a week for a minimum of 13 weeks to receive 6 semester hours of credit. Although ASP has placed students in hundreds of agencies and offices throughout the greater Washington metropolitan area, each internship placement is designed with you in mind. Your position and duties are arranged through a careful process involving ASP, the sponsoring agency and you. You receive academic credit for this course so you cannot be paid for your work. Your internship is carefully monitored by ASP faculty. Faculty monitors confer with you and your on-site supervisor. Your faculty monitor also visits your internship site at least once during the term. To successfully complete an internship, you are required to (1) submit three reflection essays on your experiences & observations, (2) get "the big picture" surrounding your placement by attending events around the city, and

Policy Analysis & Advocacy Seminar

Provides a detailed survey of the public policy issue of international migration. Migrants may be forced or voluntary travelers; legal or illegal sojourners; temporary or permanent residents. The one constant is that international migration patterns always carry important political implications for both the sending and receiving countries. Its study provides opportunity for learners to address critical questions pertaining to contemporary citizenship, democratic practice, equality, freedom, globalization, and liberalism. Course is part of the Public Policy Initiatives Track.

Professional Mentorship (optional): (4 mentor meetings)

This optional course gives you the opportunity to meet with a professional mentor in your field four times during the semester. You submit four recorded individual oral reflections to your faculty monitor, one following each of the four professional mentor meetings, and one recorded group oral reflection to your faculty monitor at the conclusion of the semester. Your oral reflections (1) demonstrate an effort to learn from your mentor's experience and background to clarify your career aspirations and emerging vocational vision and (2) draw upon a biography or novel (chosen by your mentor) to wrestle with questions, insights and implications raised by the text for your internship and life experience and for your developing sense of call.

Public Policy Project

Students are involved in proposing, researching and planning a public policy project. Course is part of the Public Policy Initiatives Track.

Topics in Leadership and Vocation (5-week module)

The course introduces concepts for Christian responsibility and involvement in public issues important to your internship. It asks what it means for you to "enact" your vocation by living out the truth of your convictions in "real life." By focusing on a public topic salient to your internship placement, you learn to use (1) basic techniques for issue analysis and (2) the narrative pattern of the Bible (creation, fall, redemption, consummation) as an analytical framework. Reflecting on the responsibilities, challenges and opportunities that arise from your internship experience, attention is given both to the larger Biblical narrative

and to your own unique story, identity and gifting. Unlike other 5-week ASP modular courses, this course stresses interaction with your internship placement and extends across the semester, beginning with the term's first two weeks, involving a week at midterm and concluding with the term's last two weeks."

China Studies CCCU

CCCU Off Campus Opportunity (16 -17 credits)

The China Studies Program (CSP) is your ticket to one of the world's most globally significant and culturally rich nations. Experience Chinese culture firsthand by participating in internships and learn about the historical, cultural, religious, geographic and economic realities of China during your course seminars. In addition to the study of the Chinese language, you could teach English to Chinese students or you might put your one-on-one talents to work in an orphanage. CSP immerses you in an increasingly important part of the world in an informed, Christ-centered way. Students earn 15-18 semester hours of credit.

COURSES

Business Internship

Required course for Business Concentration. The Internship Coordinator will make every attempt to place students in job placements that will provide meaningful work experience for the three-week internships, working full-time (40+hrs/week) for either Western or Chinese companies. Currently, nearly all of these internship placements are in Xiamen city.

Chinese History

Required course for program. One-third of this seminar course consists of lectures, one-third consists of presentations by the students, and one-third consists of field trips to historical sites. The course covers the history of China from its earliest beginnings up to the present. Students become familiar with the major dynasties of China, their character and contributions, and their major figures. On a study tour to Xi'an, Beijing, and Shanghai, students visit many of the most famous Chinese sites of historical importance, including the Terra Cotta Soldiers, the Forbidden City, the Great Wall, the temple of Heaven, the Shanghai Museum, and much more. Each student will also read and make a presentation on a book about one significant event or person in Chinese history, such as the Boxer rebellion, the Mongol empire, the international voyages or the Ming Dynasty, Matteo Ricci, etc. Possible credit: history, cross-cultural studies.

Chinese I

Required Course for program. This course in introductory Chinese focuses on acquiring survival fluency in spoken and written Chinese. The emphasis is on the spoken form of Mandarin Chinese, the national language of China. Students who already have studied Chinese may apply for a more advanced class. All students take the written exams for Chinese characters, vocabulary and grammar of the CSP Chinese I course.

Chinese II

Elective course for China Studies Concentration. This course focuses on acquiring low-intermediate fluency in spoken and written Chinese so that a student can handle situations such as travel planning, illness, making appointments, etc. The emphasis is on the spoken form of Mandarin Chinese, the national language of China. There will also be lectures on Chinese dialects, simplified v. traditional characters and word radicals.

Chinese Painting

Elective course for China Studies Concentration. May choose this course and/or Tai Chi or Dimensions. Students will learn to paint from a Chinese artist. They will practice the basics of Chinese water-based brush-work, painting traditional pictures of bamboo, flowers, etc.

Contemporary Society: Public Policy & Economic Development

Required course for program. This required course examines two key and inter-related aspects of modern China: government policy and economic reforms. Public Policy covers the structure of the Chinese government, social rights and the legal system, and issues such as ethnic minorities, family planning and education. Economic development focuses on the government policies from 1949 to present, from the commune system to the current market-oriented reforms. Other topics include foreign investment, pollutions and the environment, and the World Trade Organization. Each student will present an investigative report based on interviews with Chinese about a topic relating to contemporary Chinese society that is of particular interest to Americans. All students will also prepare a marketing paper in which they describe and analyze the ways an American or international company markets its products or its franchise in China. The goal of this course is for students to learn about China by seeking out informed Chinese themselves. Possible credit: political science, cross-cultural studies, sociology, history, business and economics.

Dimensions of East Asian Culture

Elective course for China Studies Concentration. May choose this course or Chinese Painting and/or Tai Chi. This elective course introduces students to Chinese visual, physical, medical and culinary arts. Each component consists primarily of hands-on practice. Students will also have several lectures on the unifying Chinese philosophy that underlies these dimensions of Chinese culture.

Eastern Philosophy and Religions

Elective course for China Studies Concentration. This course introduces the teachings, history, and development of Confucianism, Taoism, Buddhism, and folk religion as well as their role in China today. Other topics covered are the I Ching, Yin and Yang, the Five Phases and the widely varying ways the gospel has been introduced into China over the last 15 centuries. The course will also examine these topics from a Christian perspective, seeing to what extent they might relate to Christian doctrine. Field trips to relevant sites will occur throughout the

Intercultural Communication

Required course for program. This course covers issues intended to help students understand and adjust to Chinese culture. The focus will be on how our students demonstrate their beliefs in their daily lives within the context of China. Topics include culture and basic values; culture shock, introductory linguistics, contextualization and factors involved in successful cross-cultural interaction. Well-known films featuring famous actors (both Western and Chinese) that focus on cross-cultural experiences will be shown and discussed each week. Possible credit: sociology, cross-cultural studies, communication, linguistics.

International Business in China

Required course for Business Concentration. In this course, students hear talks presented by Christians who have done business in China for years. The talks cover issues such as fair and ethical business practices and the factors involved in outsourcing jobs to China. Additionally, students write responses to assigned readings from the course text, engage in frank discussions with the Internship Coordinator about what to expect and how to deal with business in China and meet with business leaders in Shanghai. Finally, these students prepare a group “end-of-semester” presentation for the rest of the CSP students highlighting what they have learned.

Tai Chi

Elective course for China Studies Concentration. May choose this course and/or Chinese Painting or Dimensions. This physical education course emphasizes the traditional Chinese forms of stylized self-defense, which tones the body and concentrates the mind. Exercises may focus on either the gentler form of tai chi, or on the more vigorous wu shu, depending on who is teaching that semester.

Contemporary Music Center CCCU

CCCU Off Campus Opportunity (7 core credits plus 9 credits in one of three tracks)

The world of music, though you may not have noticed, was an entirely different landscape 20 years ago. CMC has been adapting to this business, because music is a blend of the old and the new. Believe us, you’ll

be doing nothing but blending music, personalities and the occasional throat-soothing smoothie for the next four months. Your days begin with morning classes followed by composing, performing, mixing and promoting until you put your inspired soul to sleep. After 10 weeks of solid creativity, you're out on tour, living the experience and savoring every note. Students earn 16 semester hours of credit.

COURSES

Advanced Media Marketing

Business Track Required course. Through classroom instruction and presentations by visiting industry experts, Business Track students will become familiar with traditional and progressive marketing strategies. Key areas including publicity, advertising, radio and video promotion, Internet marketing, and tour support will be addressed. Students will develop a comprehensive marketing plan for each Artist and will also create and implement the marketing plan for the CMC Tour.

Advanced Studio Recording

Technical Track required course. This course focuses on professional audio recording and production. The concepts and practices learned in this course will be used by the students to engineer and mix three songs per student in the Artist Track. The goal is for students to leave the CMC prepared for an entry level position in any area of studio recording.

Audio Engineering

Technical Track required course. This course focuses on concepts and common practices in professional audio. Instruction and practical experience will focus on sound reinforcement for concerts as well as recording studio techniques, since both disciplines employ the same concepts. The information learned in this course will be put into practice in both the Concert Production and Studio Production courses.

Concert Production

Technical Track required course. This course focuses on sound reinforcement, stage lighting and design, stage management, and concert production management. The concepts and practices learned in this course will be used by the students to produce the weekly CMC Live show in support of the Artist Track student performances, as well as the weeklong tour of CCCU college campuses. The goal is for students to leave the CMC prepared for an entry level position in any area of concert production.

Essentials of Songwriting

Artist Track required course. Artists receive classroom instruction, participate in directed study with faculty and work in collaboration with other students to develop their use of form, melody, harmony, rhythm and lyric. Emphasis is placed on the song as the vehicle for the artist's creative exploration and public communication.

Faith, Music and Culture

Required core course. The purpose of this course is to help students develop a Christian approach to the creation, marketing and consumption of contemporary music. While engaging in studies of theory, history and criticism, students explore the

concept of culture as well as the nature of popular culture and examine popular art and music in contemporary aesthetic, social, cultural and industrial contexts. Additional topics include a study of the role of popular music in cultural communication, the development of a Christian critical method and an examination of different Christian approaches to popular art and culture.

Inside the Music Industry

Required core course. Through readings, lectures and seminars, this course provides up-to-the-minute insight into the inner workings of the music industry. Emphasis will be given to career possibilities and gifts and skills required to succeed in each of the major areas, including work as a performer, songwriter, record producer and engineer, etc. Students gain an understanding of the structure and methodologies of a typical U.S. record company, including A&R, marketing, radio promotion, public relations, sales & distribution, product development, art, manufacturing and business affairs.

Music Business Survey

Business Track Required course. Through lecture, text and visiting music industry experts, Business Track students will gain a broad understanding of key aspects of the music business including: Booking, Artist Management, Touring, Road Management, Production, Marketing and Promotion, Copyright and Legal Issues, Publishing and Licensing. This course will outline economic, creative and spiritual elements critical to a career in contemporary music and guide students in assessing their own strengths, weaknesses and interests. The focus for this course is hands-on application through work with contracts, live show production and career

Performance

Artist Track required course. In consultation with faculty and executive-track students, artists develop a live concert presentation that best utilizes their gifts as musicians, entertainers and communicators. Both on-campus showcases and public performances are presented throughout the semester.

Strategic Management

Business Track Required course. Business Track students will assemble a successful artist roster and participate in the following activities on their artist's behalf: scheduling, creating a business plan, analyzing and forecasting trends in popular music, advising and developing the artists with regard to their live show and

Studio Recording

Artist Track required course. Artists, via both the classroom and lab, work with faculty, other students and visiting experts to learn how to produce, record, mix edit and master recordings in a professional digital studio.

Supervised Practicum

Required core course. Each student participates in an intensive road trip to a major music market. Briefings, tours and meetings are arranged with leading record companies, artist management firms, booking agencies, recording studios, concert promoters, writers, producers and artists in various cities.

Latin American Studies CCCU

CCCU Off Campus Study (10 - 12 credits plus 6 credits in one of four tracks)

The semester begins with a series of showcases held during the first two nights of the first full week. Each student is required to perform two songs, solo. Pre-recorded tracks or other student players are allowed to assist those students who do not play an instrument. As each student defines their musical style and public persona, additional concert appearances are required, which include the CMC Live concert series, scheduled each Thursday night. As the semester progresses, each student is effectively auditioning for the Road Tour which happens towards the end of the tour.

Concentrations

Latin American Studies Concentration

Responses to Third World Reality Seminar (3)

Community Immersion/Internship (3)

This concentration is interdisciplinary by design. Students are challenged in a seminar that includes diverse perspective, broad readings and hands-on experience in a practicum setting. Course content is adapted to changes in Latin American society.

The concentration aims that participants:

- Demonstrate a critical understanding of how Latin Americans have chosen to respond to their realities;
- Re-examine their worldviews by exploring the beliefs of those they meet during the Practicum Experience;
- Articulate faith-informed positions regarding the social, political, and economic problems of the region;
- Allow their telos to direct their praxis, becoming Christian agents for change in the world.

Pre-requisite: Equivalent of one year of college Spanish.

Presentations by invited speakers are delivered in both English and Spanish, while most required readings are written in English.

ADVANCED LANGUAGE AND LITERATURE CONCENTRATION

Language and Literature Seminar (3)

Community Immersion/Internship (3)

This concentration focuses on the social, cultural, political, economic and religious issues of Latin America in the target language. Students examine how Latin Americans view their neighbors to the north *and around the world through conversations, conferences and related literature. Presentations by invited speakers are delivered in Spanish, while all required readings and assignments are written in Spanish.*

This concentration is designed to:

- Expand students' Spanish skills through additional language instruction and a community immersion experience outside of San José.
- Examine Latin America through its literature, theatre, and arts, using them as a means to examine society and culture.
- Develop cultural competencies through study and hands-on experience.

This concentration is designed for Spanish language majors with a minimum of one year of college or university intermediate Spanish and one semester of advanced Spanish conversation and/or composition.

ENVIRONMENTAL SCIENCE CONCENTRATION (SPRING SEMESTER ONLY)

Environment Science Seminar (4)

Field Research Practicum (2)

LASP created the Environmental Science Concentration (ESC) in 1993 to offer students specialized coursework in tropical ecology and sustainable development in the unique context of Costa Rica. The small country of Costa Rica is ideal for studying tropical biodiversity due to the close proximity of diverse biogeographic regions, ranging from lowland tropical rain forest and marine biomes to highland cloud forest and paramo.

While learning firsthand the complexities of tropical ecology and the intricacies of diverse biomes, students will be presented with several approaches to sustainability. Through interactions with Costa Rican scientists, conservationists, and policymakers, students will explore local ecological issues such as historical and current land use practices, biodiversity loss, forest fragmentation, ecotourism, and sustainable development models. Students will also have the opportunity to complete a field research practicum in an area of specialized interest.

A central focus throughout the course is our responsibility to be good stewards of God's creation. It is expected that ESC students will use learning experiences to formulate their own approaches to local and global ecological problems from a faith perspective.

Presentations by invited speakers are delivered in both English and Spanish, while most required readings are written in English.

International Business: Management and Marketing Concentration (Fall Semester only)

International Business Seminar (3)

Community Immersion/Internship (3)

International Business Concentration participants will explore the potential of international business in Latin America to create profit and also contribute to social progress. Through site visits, assigned readings, and an internship/community immersion experience, participants will engage the complexities of practicing business in Latin America. Christian perspectives on economic justice, stewardship, and sustainable development guide learning experiences.

Students in the International Business Concentration will:

- Complete an internship/community immersion experience during which students will explore the workings of a community development project/small business and form relationships with those in their host community.
- Articulate the relationship between Christian faith and business practice in Latin America and beyond.
- Participate in site visits that illuminate issues related to foreign investment in Latin America, sustainability in business, entrepreneurship, and economic development.
- Analyze the role of private enterprise, governments, and NGOs in poverty alleviation and economic development in Latin America.

Presentations by invited speakers are delivered in both English and Spanish, while most required readings and written work is done in English.

Pre-requisite: Course background should include macro-/micro-economics and introductory-level management. Basic marketing and international relations or cross-cultural studies are also recommended.

Satisfactory completion of this program (grade C or better) fulfills the internship requirement for students majoring in business administration at Houghton plus students earn six business elective credits.

COURSES

Business Seminar and Community Immersion/Internship

3, 3-F only

International Business: Management and Marketing Concentration required courses. Students address fundamentals and application of international business. They experience the political, social, and economic realities of Latin America. Students will meet Latin American business and government leaders, visit plantations, cooperatives, maquilas, and local businesses as well as participate in a hands-on case study/ internship project. Presentations are delivered in English and Spanish, most required readings are in English. Prerequisite: Course background should include macro-/micro-economics and introductory-level management. Satisfactory completion of this program (grade C or better) fulfills the internship requirement for students majoring in business administration at Houghton plus students earn six business elective credits.

Core Seminar: Perspectives on Latin American History, Contemporary Issues

Required Core course. This seminar introduces the social, historical, political, economic, philosophical and theological currents that constitute Latin American society and culture. The course includes personal discussions with Latins and field trips to various sites. This seminar is designed to introduce students to the:  Historical development of Latin America, including

selected case studies. • Variety of analytical perspectives from which Latin American reality is explained and understood. • Character, past and present, of U.S. policy in the region. • Nature and influence of the economic reality in the region.

Environment Science Seminar and Field Research Practicum

4, 2-S only

Environmental Science Concentration required courses. Participants in this concentration explore the natural sciences in a tropical setting and study their influence on the process of sustainability. Students are immersed in a variety of ecosystems: dry forests, lowland rain forests, mountain cloud forests, volcanic regions, as well as beautiful reefs. Costa Rica serves as a natural laboratory. Required prerequisites: One semester of zoology or an applied laboratory science. Recommended prerequisites: One semester of general chemistry or physics.

Language and Literature Seminar and Community Immersion/Internship

Advanced Language and Literature Concentration required courses. This concentration focuses on the social, cultural, political, economic and religious issues of Latin America in the target language. Students examine how Latin Americans view their neighbors to the north. As a part of this concentration students examine Latin America through its literature, using it as a means to examine society and culture. Designed for Spanish language majors with a minimum of one year of college or university intermediate Spanish and one semester of advanced Spanish conversation and/or composition.

Responses to Third World Reality Seminar and Community Immersion/Internship

Latin American Studies Concentration required courses. This concentration is interdisciplinary by design. Students are challenged in a seminar that includes diverse perspective, broad readings and group presentations which respond to scenarios drawn from the contemporary scene. Participants also gain valuable first-hand experiences in related service opportunities. In recent semesters, these have been organized in neighboring countries throughout Latin America. Prerequisite: Equivalency of one year of college Spanish.

Spanish Language Study

Required Core course. Students come to Costa Rica with varying degrees of fluency in Spanish, so LASP places them in the Spanish course that corresponds to each participant's level of oral proficiency based on a placement exam and interview during the orientation. Students study grammar, conversation, phonetics and/or literature based on the results of their tests. Classes are taught by Latin Americans, which means participants hear and learn the language the way it is spoken in Latin America. This is reinforced during everyday interaction with Spanish-speaking host families.

Travel Practicum

Required Core course. The LASP group travels to several countries in Central America during the semester. The travel practicum component is not a vacation trip; it is an integral part of the learning process. Among other assignments, students will be required to attend conferences and maintain a journal of ideas and perceptions developed throughout the trips.

Los Angeles Film Studies Center CCCU

CCCU Off Campus Study (16 credits - 6 from the internship and 10 from seminar study)

Imagine pitching your screenplay to working Hollywood producers (it could happen) or attending the premiere of your short film. LAFSC provides a well-rounded yet in-depth understanding of what makes the business of Hollywood run. Workshops combined with electives teach you relevant production processes and protocols, as well as the vital skills of collaboration. Talent and literary agencies, managing companies, film developers and post production facilities are just some of the exciting internship options. Students earn 16 semester hours of credit, 6 from the internship and 10 from seminar study.

COURSES

Faith and Artistic Development

Required core course. A class that explores the connection between the eye, the heart and the hand, this course focuses on the integration of faith and learning as well as developing the necessary skills for analysis of the culture of Hollywood.

Hollywood Production Workshop

Required core course. Students work collaboratively in groups to create a festival-ready piece, including all the legal documentation and rights to enable the finished production to qualify for festival submission. Offers students the opportunity to make a motion picture production using Hollywood locations, resources, and protocol. Emphasizes the importance of each contribution to a production, the process of production, and effective production management.

Independent Study

Elective course. Set up by special request and arrangement. In order to be considered, students must submit a portfolio and a project proposal. Students with approved projects will be appointed a mentor to supervise the project. Projects could include further development of a portfolio or reel, critical research, or a senior thesis

Internship: Inside Hollywood

Required core course. Nonpaying internship in some aspect of the Hollywood film or television industry, arranged by the LAFSC. Internships are primarily in an office setting such as development companies, agencies, personal management companies, production offices, etc.

Narrative Story Telling

Elective course. Concentrating on the art form of narrative storytelling, the course places special emphasis on the visual aspect of the discipline. Two tracks are offered in the course, writing and production. After the core instructional period in each track, students from both tracks are reunited and will have the opportunity to hone their narrative analysis skills, participate in workshop style labs and make two short films that demonstrate their ability to utilize storytelling theory on screen.

Professional Acting for the Camera

Elective course. An advanced workshop in the practice and process of acting for the camera aimed at students who have a desire to pursue acting as a career. Instruction includes an overview of current camera acting techniques and thorough

discussion of the art of acting. Several class sessions throughout the course will be devoted to the business of acting for film and television in the Hollywood entertainment industry with an emphasis given to developing the materials and relationships necessary for a successful career.

Middle East Studies CCCU

CCCU Off Campus Opportunity (16 credits)

Located in Amman, Jordan, the Middle East Studies Program (MESP) immerses students in the daily life, language, food, culture, religion and politics of one of the oldest continuously-inhabited cities in the world. Learn firsthand from locals how to work, play, and serve in the Middle East as you become their neighbor—and soon, their family—while learning adventurously at MESP.

Forget everything you know about classroom academics: this is learning through immersion.

MESP students learn first-hand from locals who live out the subject matter. You will live, work, eat, play, and travel among these people, becoming a member of their neighborhoods. By the end of the semester, your life will have become entangled with theirs—their cultures, languages, passions and joys. We are committed to this Christ-centered approach, aiming to serve, process, and evaluate your immersion as you grow in your understanding of what it means to be an incarnational follower of Jesus in a land that needs such followers now. 16 semester hours of credit.

COURSES

Conflict and Change in the Middle East

The purpose of this course is to help students understand the historical, political and religious transformations that have occurred in the last century. Included are discussions of economic development and the political and social implications for Middle Eastern peoples. The Arab-Israeli conflict will receive special emphasis with the goal of helping students understand the complexity of the issues surrounding the current attempts to establish a lasting peace. The course includes an extended travel component based in Jerusalem in order to gain firsthand Israeli and Palestinian perspectives and ideas regarding resolution of the conflict. In Cairo, students enjoy on site briefings from experts at the World Bank, the Arab League and the U.S. Embassy. Possible credit:

Introduction to Arabic Language

This course, taught by Egyptian instructors affiliated with the American University in Cairo, aims to help students acquire basic skills in Egyptian Arabic, a dialect widely understood in the Arab world. The course emphasizes the practical use of the language, encouraging interaction with the locals through the use of the "Cairo Lab" assignments or during visits to service projects. Small classes four days a week offer a solid introduction to the colloquial grammar and a substantial vocabulary as students take more than 100 hours of instruction. Once completed, the course should bring students to the intermediate level of Egyptian colloquial Arabic. Possible credit: language/cross-cultural."

Islamic Thought and Practice

This course examines many dimensions of Islamic faith - historical, legal, doctrinal, popular and behavioral - from early times to the present. While emphasis is on the early period and its influence on events and people, the course also attempts to relate these early developments to contemporary issues in the Middle East, such as the impact of colonialism, gender equality, modernization, development and democracy. Students are encouraged to begin thinking about relevant similarities and differences between themselves and Muslim

Peoples and Cultures of the Middle East

Using a Socio-anthropological approach, this course seeks to acquaint the students with the enormous varieties of peoples and cultures found in the Middle East. Literature, music, dance and food are integrated into the learning experience. The course examines the basic structure of historical and contemporary societies and cultures with special emphasis on those found in Egypt, Jordan, Syria, and Turkey. The MESP travels to these countries during two weeks of this course, learning about the various ethnic groups firsthand. Students study such groups as Bedouins, Kurds, Jordanians, Turks, Yoruks, Syriac Syrians, Armenians and more. Historical sites include Damascus, Aleppo, Antioch, Cappadocia and Istanbul. Social organization, law, family, tribe, gender, rural-urban migration and social change are among the areas of inquiry in this course. Possible credit:

Oxford Summer School

Off Campus Opportunity (6 credits)

OXFORD SUMMER SCHOOL PROGRAM

OSP fuels intellectual development at all levels of education. Engage in scholarship guided by Oxford's primary method of pedagogies: the tutorial. Go one-on-one with your professor to defend your argument and support your positions, ready yourself for graduate school or just become a better thinker. When you're not flexing your brain, keep it sharp with student outings and field trips. Recommended 6 credits.

Lecture Series

All students participate in the lecture series "The Christian tradition in the British Isles." This course includes lectures and field trips to sites of major interest, providing the historical context for work undertaken in the seminars.

Seminars

All students participate in two different seminars. Students are evaluated by seminar leaders on the basis of written work. Seminars can be taken for undergraduate or graduate credit.

Tutorials

As part of their seminars students participate in individual tutorials during the second part of the programme. While meeting one-on-one with their seminar leader, students develop, discuss and defend an essay related to the students' seminar topic.

Sandra D. Johnson, Interim Chair | Cathy E. Freytag, Associate Dean

585.567.9645

Overview

Physical Education majors meet the Health and Wellness requirements through their coursework (see appropriate majors).

For Pre-physical Therapy please see the Biology Department page.

FACULTY

Sandra D. Johnson

Thomas R. Kettelkamp

David B. Lewis

Athletic Administration & Sports Management

Required Courses	Credits
PHED 314 Organization & Management of PE & Athletics (S' Odd)	4
PHED 306 Principles of Coaching & Sports Management	2
PHED 315 Psychosocial Aspects of PE and Sport (F' Odd)	2
PHED 313 Sports Marketing and Communication (S' Even)	2
Elective Choose one of the following:	
BADM 213 Business Law	4
BADM 320 Leadership Development	4
Total	14

The physical education minor with a focus in athletic training is comprised of the courses listed above. This minor is designed to enhance the student’s skills in preventing, evaluating, and treating various athletic injuries; however, it does not lead to certification in athletic training.

Health Promotion and Fitness

Required Courses	Credits
PHED 237 Holistic Health	3
PHED 246 Care & Prevention of Athletic Injuries	2
PHED 341 Kinesiology	4
PHED 295 ST: Concepts of Personal Training (M' Even)	3
Elective Choose one of the following:	
BIO 232 Epidemiology	2
CHEM 187 Intro to Nutrition	3
PSY 230 Lifespan Development of the Family	4
Total	14-16

The physical education minor with a focus in athletic training is comprised of the courses listed above. This minor is designed to enhance the student's skills in preventing, evaluating, and treating various athletic injuries; however, it does not lead to certification in athletic training.

Physical Education

15.5 hours

Pre/Co-requisites	Credits
Three activity courses (two of which may meet activity requirements of Health and Wellness)	1.5
Required Courses	Credits
PHED 212 Foundations of Physical Education	2

PHED 237 Holistic Health (meets the theory component of Health and Wellness)	4
Eight hours from courses numbered above 200 (no more than four credits may be in activity laboratories)	8
Total	15.5

Pre-Athletic Training

16 hours

Required Courses	Credits
PHED 246 Care, Prevention & Management of Athletic Injuries	2
PHED 247 Recognition and Evaluation of Athletic Injuries	4
PHED 308 First Aid/Safety	2
PHED 330 Physiology of Exercise <i>or</i> PHED 341 Kinesiology	4
PHED 347 Therapeutic Modalities	2
PHED 348 Therapeutic Exercise Management of Injuries	2
Total	16

The physical education minor with a focus in athletic training is comprised of the courses listed above. This minor is designed to enhance the student's skills in preventing, evaluating, and treating various athletic injuries; however, it does not lead to certification in athletic training.

Sports Ministry

Minimum 16, interdisciplinary

Sports ministry is a culturally relevant relational tool that helps connect the Christian faith to the sport-minded. The minor is particularly helpful for students interested in academic and vocational pursuits within local church ministries, missions, education, coaching, camping, recreation, equestrian studies, church planting and intercultural studies.

Required Courses	Credits
CRFM 325 Bible Study and Teaching Methods	3
PHED/CRFM 227 Sports Ministry: The Integration of Faith and Sport	4
PHED/CRFM 275 Methods of Administration of Sports Ministry	2
Total	9
Electives	Credits
<i>Select one course from the following:</i>	4
CRFM 341/342 Theological Explorations in Youth Cultures and Ministry I & II	2, 2
THEL 313 Systematic Theology	4
<i>*Select at least one course from the following:</i>	3 - 4
INCL XXX Intercultural course recommended by department	1-4
MISS 242 Missions and the Global Church	4
PHED 305 Sports Ministry Field Practicum **	2
PHED 306 Principles of Coaching & Sport Management	4
REC 227 Outdoor Leadership Training	4
REC 240 Administration of Organized Camps	4

CREM 341/342 or THEL 313 (<i>whichever was not used in previous category</i>)	4
*For other options, see the Director of this program.	
<i>**with approval the practicum can be fulfilled through one of the following provided the course has a sufficient sports ministry component:</i>	
CRFM 442 Internship in Christian Formation	4
MISS 311 Cross Cultural Field Experience	3-4
INCL 311 Intercultural Experience	0-4

Brandon Hoffman, chair | Mark E. Yuly, Interim Area Associate
Dean

585.567.9280

Overview

The BS physics major provides a broad variety of experiences with the theoretical basis of physics, its applications, experimental and mathematical techniques, and its study using computer programming and simulations. It serves as an excellent preparation for graduate work in physics or related fields, such as engineering, astrophysics, biophysics, physical oceanography, geophysics, and meteorology. Students may also use the physics major as preparation for attending professional school in fields such as medicine, dentistry, and law.

The BA major is particularly appropriate for students interested in a double major with another field or for students completing a major in inclusive childhood or secondary education. Students interested in working toward certification to teach physics at the elementary level can do so by double-majoring in physics and inclusive childhood education. Students interested in working toward certification to teach physics at the middle and high school levels can do so by double-majoring in physics and adolescence education (ADE).

Please see the Education Department section of this catalog for details.

The Applied Physics Major - Engineering Emphasis is for those students interested in the engineering applications of physics and is preparation for an engineering-related career or graduate school in engineering or physics.

The computer science major emphasizes the theoretical foundations and application techniques for solving problems in today’s technological environment. The major prepares students to effectively use the technology of today and create the technology for tomorrow with a thorough understanding of a programming language and structures as well as foundations of computer architecture and networks. Throughout the major, emphasis is placed on the ability to apply understanding of fundamental concepts to solve problems. Students enter careers as programmers, software engineers, information technology as well as graduate school in a variety of computer-related disciplines.

FACULTY

Kurt M. Aikens	Donell Brandon Hoffman	Wei Hu	Mark E. Yuly
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MAJORS

Applied Physics Major — Engineering Emphasis

BS (36 hours in major; 8-20 in prerequisites; 12 in co-requisites)

Prerequisites	Credits
PHYS 151, 152 General Physics I, II	4, 4
MATH 170/171 or 181, and 182 Calculus I, II	4 - 8, 4
Total	8-20
Co-requisites	Credits
MATH 241 Differential Equations	4
MATH 225 Multivariate Calculus	4
CHEM 151 General Chemistry I or CSCI 211 Programming I	4
Total	12
Required Courses	Credits
PHYS 215 Statics & Engineering Design	4
PHYS 251 Mechanics I	4
PHYS 258 Analog Electronics	4
PHYS 259 Digital Electronics	4
PHYS 212 Modern Physics	2
PHYS 275/276 Experimental Physics Lab	1, 1
PHYS 353 Electricity and Magnetism I	4
PHYS 355 Thermal Physics	4

PHYS 471, 472 Physics Project Lab	1, 1
PHYS 482 Senior Capstone: Physics Seminar	1
<i>One advanced theory course selected from the following:</i>	4
PHYS 352 Mechanics II	4
PHYS 354 Electricity and Magnetism II	4
PHYS 356 Quantum Mechanics	4
STEM 371 Career Seminar	1
Total	36
Additional Recommended Supporting Courses	Credits
PHYS 260 Optics	4
CHEM 152 General Chemistry II	4
ECON 210 Microeconomics	2
BADM 303 Entrepreneurship	2

Computer Science

BS: (45 in major; 8-12 in co-requisites)

Co-requisites	Credits
MATH 181 Calculus I OR	4
MATH 170/171 Calculus I with Pre-calculus A AND B	4,4
MATH 210 Introduction to Proofs	2
MATH 214/CSCI 214 Discrete Mathematics	2

Total	8-12
Required Courses	Credits
CSCI 211 Programming I	4
CSCI 218 Programming II	4
CSCI 226 Computer Architecture	4
CSCI 236 Data Structures and Algorithms	4
CSCI 336 Programming III	4
CSCI 340 Data Bases	4
CSCI 420 Networking	4
CSCI 480 Senior Capstone: Senior Seminar	4
Three Elective Computer Science courses	12
STEM 371 Career Seminar	1
Total	45

Physics (BA)

BA (25 hours in major; 8-16 in prerequisites; 8 in co-requisites)

Prerequisites	Credits
PHYS 151 General Physics I	4

MATH 181 Calculus I <i>OR</i>	4
MATH 170/171 Calculus I with Pre-calculus A <i>and</i> B	4, 4
MATH 182 Calculus II	4
Total	8-16
Co-requisites	Credits
MATH 241 Differential Equations	4
MATH 225 Multivariate Calculus	4
Total	8
Required Courses	Credits
PHYS 152 General Physics II	4
PHYS 251 Mechanics I	4
PHYS 212 Modern Physics	2
PHYS 275/276 Experimental Physics Lab	1, 1
PHYS 355 Thermal Physics	4
PHYS 353 Electricity and Magnetism I	4
PHYS 482 Senior Capstone: Physics Seminar	1
Additional 4 hours in PHYS courses above 200 level	4
Total	25
Additional Recommended Supporting Courses	Credits
CHEM 151, 152 General Chemistry I, II	4, 4
CSCI 211 Programming I	4

PHIL 360 History and Philosophy of Science	4
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Physics (BS)

BS (36 hours in major; 16-20 in prerequisites; 12 in co-requisites)

Prerequisites	Credits
PHYS 151, 152 General Physics I, II	4, 4
MATH 181 Calculus I OR	4
MATH 170/171 Calculus I with Pre-calculus A and B	4, 4
MATH 182 Calculus II	4
Total	16-20
Co-requisites	Credits
MATH 241 Differential Equations	4
MATH 225 Multivariate Calculus	4
CHEM 151 General Chemistry I	4
Total	12
Required Courses	
PHYS 251 Mechanics I	4
PHYS 3512 Mechanics II	4
PHYS 212 Modern Physics	2
PHYS 275/276 Experimental Physics Lab	1, 1

PHYS 355 Thermal Physics	4
PHYS 356 Quantum Mechanics	4
PHYS 353 Electricity and Magnetism I	4
PHYS 354 Electricity and Magnetism II	4
PHYS 471, 472 Physics Project Lab	1, 1
PHYS 482 Senior Capstone: Physics Seminar	1
STEM 371 Career Seminar	1
Additional 4 hours in PHYS courses above 200 level	4
Total	36
Additional Recommended Supporting Courses	
MATH 261 Linear Algebra	4
CHEM 152 General Chemistry II	4
CSCI 211 Programming I	4
CSCI 236 Data Structures and Algorithms	4
PHIL 360 History and Philosophy of Science	4

MINORS

Computer Science

16 hours of credit

Required Courses	Credits
CSCI 211 Programming I	4

CSCI 218 Programming II	4
CSCI 226 Computer Architecture	4
CSCI 236 Data Structures and Algorithms	4
Total	16

Physics

12 hours of credit in physics courses numbered 211 or above.

TRACKS

Engineering Track

BS (35 hours in major; 12-20 in prerequisites; 12 in co-requisites)

This option is for those students interested in the engineering applications of physics and is preparation for an engineering-related career or graduate school in engineering or physics.

Prerequisites	Credits
PHYS 151, 152 General Physics I, II	4, 4
MATH 170/171 or 181, and 182 Calculus I, II	4-8, 4
Total	12 - 20
Co-requisites	Credits
MATH 241 Differential Equations	4

MATH 225 Multivariate Calculus	4
CHEM 151 General Chemistry I or CSCI 211 Programming I	4
Total	12
Required Courses	Credits
PHYS 215 Statics & Engineering Design	4
PHYS 251 Mechanics I	4
PHYS 258 Analog Electronics	4
PHYS 259 Digital Electronics	4
PHYS 212 Modern Physics	2
PHYS 275/276 Experimental Physics Lab	1, 1
PHYS 353 Electricity and Magnetism I	4
PHYS 355 Thermal Physics	4
PHYS 471, 472 Physics Project Lab	1, 1
PHYS 482 Senior Capstone: Physics Seminar	1
<i>One advanced theory course selected from the following:</i>	4

PHYS 352 Mechanics II	4
PHYS 354 Electricity and Magnetism II	4
PHYS 356 Quantum Mechanics	4
Total	35
Additional Recommended Supporting Courses	Credits
PHYS 260 Optics	4
CHEM 152 General Chemistry II	4
ECON 210 Microeconomics	2
BADM 303 Entrepreneurship	2

Paul D Young, Chair and Associate Dean

585.567.9440

Overview

Psychologists study normal and abnormal behavior, structured and erratic thinking, stable and troubled emotion. We have a broad task. Consequently, students of psychology read widely, investigate problems scientifically, and think carefully and deeply. They also share the knowledge they gain with others through writing, public presentation, and professional service. At Houghton, they wrestle with the ways that the Christian faith frames and informs our studies and our understanding.

Since psychology students typically have broad interests and a variety of goals, the major prepares students to pursue a career in human services immediately after graduating or to go on to graduate training in psychological research and college teaching, clinical or counseling psychology, school psychology, marriage and family therapy, or in related fields such as social work and human resource management.

Even without graduate training in psychology, knowledge of psychological functioning of individuals and groups is a valuable asset in professions such as medicine, law, business, education, therapeutic recreation, and ministry. For example, coursework in psychology is required for the Medical College Admission Test.

The major consists of Introduction to Psychology (4); a 14-credit core common to all tracks; 24 credits of track-specific courses and electives; and for four tracks, 12 or 18 credits in cognate courses in other areas, analogous to a minor or a concentration. The psychology coursework totals 42 hours, including introduction to psychology which meets the IS-Community requirement in psychology.

Students majoring in psychology who wish to complete two or more tracks within the major must complete a minimum of 12 distinct credits in each track. Courses beyond these distinct credits may be counted for more than one track if they meet requirements for both tracks.

Sociology provides an understanding of the social and cultural influences on human action. The major in sociology includes coursework in anthropology, environmental and development issues, and other topics related to contemporary society. It provides a critical dimension to a liberal arts education and tools for addressing social and ecological problems facing local, national, and global communities. Two directions are offered: 1) obtain a second major in Biology, Communication, Intercultural Studies, International Development, Political Science, Psychology, Recreation, or another field; OR 2) deeply explore environment, development, and marriage and family-related issues in the sociology discipline. Studying sociology offers excellent preparation for students anticipating careers in community and international development, environmental and natural resource conservation, social work and health services, politics and law, business and human resource management, recreation and tourism, urban planning, and other related areas. Coursework in sociology is required for the Medical College Admission Test.

FACULTY

Marcus W. Dean Michael D. Lastoria Ronald J. Oakerson Richard D. Stegen

Cynthia S. Symons John F. Van Wicklin Paul D. Young

MAJORS

Psychology - General Psychology Track

BA: 42 Psychology credits (17-18 credits of Core courses; 21-28 credits of track-specific courses and electives.)

Core Courses	Credits
PSY 111 Introduction to Psychology	4
PSY 309 Statistics	(3 or 4)
PSY 310 Experimental Methods	4
PSY 354 Brain and Behavior	4
PSY 480 Senior Capstone Seminar	2
Total	17-18
General Psychology Track	Credits
<i>One developmental course from the following:</i>	
PSY 213 Developmental Psychology	4
PSY 217 Adolescence and Emerging Adulthood	2
PSY 230 Lifespan Development of the Family	4
PSY 321 Adult Development and Aging	2

<i>One social course from the following:</i>	
PSY 218 Social Psychology	3
PSY 337 Social Cognition	3
<i>One clinical course from the following:</i>	
PSY 301 Psychology of Personality	3
PSY 305 Abnormal Psychology	3
PSY 314 Child Psychopathology	3
<i>One integrative issues course from the following:</i>	
PSY 401 History and Systems of Psychology	2
PSY 306 Psychology of Religion	3
<i>One neuroscience course from the following:</i>	
PSY 335 Drugs and Behavior	3
PSY 336 Cognitive Psychology	3
PSY 451 Learning and the Brain	3
Psychology Electives to total 42 credits	8-12
Total	42

Psychology Major - Applied/Pre-Therapy Track

BA: 42 Psychology credits (17-18 credits of Core courses; 18-31 credits of track-specific courses and electives) plus 12 or 18 credits in a cognate area.

Statistics (PSY 309) and Experimental Methods (PSY 310) should be taken in fairly close sequence during the sophomore and junior years. The Statistics class also meets the Quantitative Literacy competency requirement in mathematics for integrative studies. Students desiring to participate in the City Semester internship in Buffalo should plan to work closely with their advisor to complete the appropriate series of courses prior to placement.

Core Courses	Credits
PSY 111 Introduction to Psychology	4
PSY 309 Statistics	(3 or 4)
PSY 310 Experimental Methods	4
PSY 354 Brain and Behavior	4
PSY 480 Senior Capstone Seminar	2
Total	17-18
Applied/Pre-Therapy Track	Credits
PSY 213 Developmental Psychology or PSY 217 Adolescence & Emerging Adulthood or PSY 321 Adult Development & Aging	2 or 4
PSY 305 Abnormal Psychology	3
PSY 314 Child Psychopathology	3
PSY 325 Human Sexuality or PSY 335 Drugs and Behavior	3
PSY 402 Counseling and Psychotherapy	4

PSY 410 Practicum or PSY 415 Internship	2-6
Psychology Electives to total 42 credits	1-8
Total	42
Cognate	
12 hours in Education, Equestrian Studies, Family Studies, Intercultural Studies, Music, Recreation, or Sociology; or 18 hours in Art.	12 or 18

For details of Pre-Art Therapy, see the Pre-Art Therapy section of the catalog.

Psychology Major - Cognitive/Social Psychology Track

BA: 42 Psychology credits (18 credits of Core courses; 24 credits of track-specific courses and electives) plus 12 credits in a cognate area.

Statistics (PSY 309) and Experimental Methods (PSY 310) should be taken in fairly close sequence during the sophomore and junior years. The Statistics class also meets the Quantitative Literacy competency requirement in mathematics for integrative studies. Students desiring to participate in the senior semester internship in Buffalo should plan to work closely with their advisor to complete the appropriate series of courses prior to placement.

Core Courses	Credits
PSY 111 Introduction to Psychology	4
PSY 307 and 308 Statistics I/II OR PSY 309 Statistics	(2, 2) or (3 or 4)
PSY 310 Experimental Methods	4
PSY 354 Brain and Behavior	4

PSY 480 Senior Capstone Seminar	2
Total	18
Cognitive/Social Psychology Track	Credits
PSY 218 Social Psychology	3
PSY 213 Developmental Psychology or PSY 301 Psychology of Personality	3
PSY 336 Cognitive Psychology	3
PSY 337 Social Cognition	3
PSY 451 Learning and the Brain	3
PSY 393 Collaborative Research	0 - 4
Psychology Electives to total 42 credits	1-9
Total	42
Cognate	
12 hours in communication, education, philosophy, or sociology	12

Psychology Major - Developmental Psychology Track

BA: 42 Psychology credits (17-18 credits of Core courses; 20-29 credits of track-specific courses and electives) plus 12 credits in a cognate area.

Statistics (PSY 309) and Experimental Methods (PSY 310) should be taken in fairly close sequence during the sophomore and junior years. The Statistics class also meets the Quantitative Literacy competency requirement in mathematics for integrative studies. Students desiring to participate in the City Semester internship in Buffalo should plan to work closely with their advisor to complete the appropriate series of courses prior to placement.

Core Courses	Credits
PSY 111 Introduction to Psychology	4
PSY 309 Statistics	(3 or 4)
PSY 310 Experimental Methods	4
PSY 354 Brain and Behavior	4
PSY 480 Senior Capstone Seminar	2
Total	17-18
Developmental Psychology Track	Credits
PSY 213 Developmental Psychology	4
PSY 217 Adolescence and Emerging Adulthood	2
PSY 230 Lifespan Development of the Family	4
PSY 314 Child Psychopathology	3
PSY 321 Adult Development and Aging	2
Advanced Developmental Psychology (course, research or practicum)	0 - 4

Psychology Electives to total 42 credits -must include a neuroscience course	5 - 10
Total	42
Cognate	
12 hours in Education, Family Studies, Recreation, Health or other related field.	12

Psychology Major - Honors Research Track

BA: 42 Psychology credits (17-18 credits of Core courses; 24-25 credits of track-specific courses and electives).

Statistics (PSY 309) and Experimental Methods (PSY 310) should be taken in fairly close sequence during the sophomore and junior years. The Statistics class also meets the Quantitative Literacy competency requirement in mathematics for integrative studies. Students desiring to participate in the City Semester internship in Buffalo should plan to work closely with their advisor to complete the appropriate series of courses prior to placement.

Core Courses	Credits
PSY 111 Introduction to Psychology	4
PSY 309 Statistics	(3 or 4)
PSY 310 Experimental Methods	4
PSY 354 Brain and Behavior	4
PSY 480 Senior Capstone Seminar	2

Total	17-18
Honors Research Track	Credits
PSY 336 Cognitive Psychology or PSY 337 Social Cognition	3
PSY 451 Learning and the Brain	3
PSY 393 Collaborative Research (2 semesters)	2
PSY 496 Honors in Psychology	4
At least one honors-enhanced course in each area chosen from Developmental, Integration, Social, and Clinical	12
Total	42

Psychology Major - Psychobiology Track

BA: 42 Psychology credits (17-18 credits of Core courses; 20-29 credits of track-specific courses and electives) plus 12 credits in a cognate area.

Statistics (PSY 309) and Experimental Methods (PSY 310) should be taken in fairly close sequence during the sophomore and junior years. The Statistics class also meets the Quantitative Literacy competency requirement in mathematics for integrative studies. Students desiring to participate in the City Semester internship in Buffalo should plan to work closely with their advisor to complete the appropriate series of courses prior to placement.

Core Courses	Credits
PSY 111 Introduction to Psychology	4
PSY 309 Statistics	(3 or 4)

PSY 310 Experimental Methods	4
PSY 354 Brain and Behavior	4
PSY 480 Senior Capstone Seminar	2
Total	17-18
Psychobiology Track	Credits
PSY 325 Human Sexuality	3
PSY 335 Drugs and Behavior	3
PSY 336 Cognitive Psychology	3
PSY 451 Learning and the Brain	3
PSY 393 Collaborative Research	0 - 4
Psychology Electives to total 42 credits	8 - 13
Total	42
Cognate	
12 hours in biology or biochemistry.	12

MINORS

Family Studies

15 hours.

Required Courses	Credits
230 Lifespan Development of the Family	4
SOC 237 Introduction to Marriage and Family Studies	3
Total	7
Eight hours selected from following courses	Credits
PSY 325 Human Sexuality	4
PSY 326 Family Systems Theory through Film	4
SOC 330 Culture and Family	2
SOC 362 Gender Relations	2
SOC 390 Practicum in Family Studies	1, 2, 3, or 4
SOC 297 Special Topics Courses (<i>pre-approved by department chair</i>)	2 or 4
SOC 394 Internship in Family Studies	4, or 6
THEL 337 Theological Foundations of the Family	4
Total	8

The family studies minor is interdisciplinary, combining the fields of anthropology, sociology, psychology, and religion. Special topics in other disciplines are also offered according to interest and demand. The minor is designed to provide students with adequate knowledge and skills needed for professional careers in human services and leadership roles in the church, family, and community, in addition to preparing students for further education in Family Studies and related areas.

Psychology

12-16 credit hours.

A minor in psychology consists of at least four courses in psychology above PSY 111, totaling 12-16 hours. Statistics (PSY 307, 308 and 309) are excluded if courses chosen for the minor total less than 15 hours.

Sociology

12 hours

12 hours above SOC 101, except PSY 307, 308 and 309 Statistics.

PRE-PROFESSIONAL

Pre-Art Therapy

Combined art and psychology offering

Faculty Advisor: Paul Young

Students interested in art therapy as a career may prepare for graduate study in the field by either majoring in art with a structured minor in psychology, or by majoring in psychology with a structured minor in art. Either path will enable the student to fulfill the undergraduate requirements for graduate school admission and the guidelines of the American Art Therapy Association.

Art Major option: The American Art Therapy Association requires a minimum of 12 semester hours in psychology, including Developmental Psychology and Abnormal Psychology. Some graduate programs recommend additional undergraduate psychology coursework. Students majoring in art should take the following courses for at least a minor in psychology.

Psychology Courses to be taken with Art major	Credits
PSY 213 Developmental Psychology	4
PSY 305 Abnormal Psychology	3
<i>at least two more courses selected from the following in consultation with Professor Young</i>	

PSY 217 Adolescence and Emerging Adulthood	2
PSY 310 Experimental Methods (with a prerequisite of PSY 307 and 308 or 309 Statistics)	4
PSY 314 Child Psychopathology	3
PSY 402 Counseling and Psychotherapy	4
PSY 410 Practicum in Psychology (in an art therapy setting)	1, 2, or 3
Psychology Total	at least 12

Psychology Major option: The American Art Therapy Association requires a minimum of 18 semester hours in studio art, so that the student can “demonstrate proficiency and disciplined commitment in art making... using a variety of art materials and processes”. Students majoring in psychology should take the Applied/Pre-Therapy track, including a practicum in an art therapy setting. They should also take at least 18 credits in studio art classes to cover a variety of media, such as the following, selected in consultation with Advisor.

Art Courses to be taken with Psychology Major	Credits
ART 271 Ceramics I	4
ART 241 Two-Dimensional Design	2
ART 242 Three-Dimensional Design	2
ART 211 Drawing I	2
ART 245 Graphic Design I	4
ART 221 Painting I	4

Art Total	at least 18 credits
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In addition to the options outlined above, a student interested in Art Therapy could complete a double major in art and psychology. Such students should consult with Professor Young about appropriate selection of courses.

Andrea N Boon, Interim Chair | Paul D Young, Associate Dean

585.567.9440

Overview

Major: This major in recreation provides two option areas: Equestrian Option - Performance Track and Equestrian Option - Management Track.

For a minor in Equestrian Studies, see Equestrian Studies link below.

For a minor in Recreation, see Recreation link below.

No more than eight hours of equestrian studies may count toward graduation unless student is in the Recreation major with an Equestrian track, the Equestrian Studies minor or a Psychology major- Applied/Pre-Therapy Track – Equestrian Studies cognate.

ALL equestrian courses have fees. EQST 113 and EQST 114 have a single fee; others have double fees.

FACULTY

Laura Alexeichik	Andrea N. Boon	Thomas R. Kettelkamp	Robert B. Smalley
Larissa Strappello	Jo-Anne O. Young		

MAJORS

Recreation: Equestrian Option – Management Track

BS (31-33 hours plus 13 hours in co-requisites)

The Recreation: Equestrian options give a solid foundation for students preparing to enter the equestrian venue as professionals in teaching, training, facility management, and related careers. Through academically rigorous courses and expert instruction on top-class school master horses, students are equipped with a broad base of knowledge in classical horsemanship. Classes encompass theory and philosophy, riding, the teaching of riding, and care of the horse. In-depth studies, opportunities to study with world class clinicians,

and riding in competitions cultivate Christ-like character in students, enabling them to become effective scholar-servants.

Co-requisites	Credits
ACCT 211 Financial Accounting	3
BADM 212 Principles of Management	4
BADM 303 Entrepreneurship	2
BADM 314 Human Resources Management	4
Total	13
Core Requirements	Credits
REC 222 Leisure, Work and Society	4
REC 300 Program Planning and Evaluation	4
REC 406 Capstone: Recreation Internship	4-6
<i>Certification: WFR or Advanced WFA</i>	
Total	12-14
Theory Requirements	Credits
EQST Foundations of Equestrian Studies	4
EQST 224 CHA Riding Instructor Certification	3

EQST 230 Basic Western Riding	2
EQST 276 Dressage	2
EQST 337 Adventure Trails	2
REC 227 Outdoor Leadership Training	4
<i>Choose 2 credits of electives from the following courses</i>	
EQST 235 CHA-IRD	1
EQST 240 Teaching Riding in Bolivia	2
EQST 323 Eventing	2
EQST 324 Principles of Training	2
EQST 325 Jumping I	2
EQST 326 Jumping II	2
EQST 327 Mini Prix Equitation	2
EQST 334 Competition Dressage	2
EQST 421 Musical Freestyle Dressage	2
EQST xxx Independent Study	1-2

EQST xxx Special Topics	1-2
Total Theory Requirements	19

Recreation: Equestrian Option – Performance Track

BS (33-35 hours plus 11 hours in co-requisites)

The Recreation: Equestrian options give a solid foundation for students preparing to enter the equestrian venue as professionals in teaching, training, facility management, and related careers. Through academically rigorous courses and expert instruction on top-class school master horses, students are equipped with a broad base of knowledge in classical horsemanship. Classes encompass theory and philosophy, riding, the teaching of riding, and care of the horse. In-depth studies, opportunities to study with world class clinicians, and riding in competitions cultivate Christ-like character in students, enabling them to become effective scholar-servants.

Co-requisites	Credits
ACCT 211 Financial Accounting	3
BADM 212 Principles of Management	4
EDUC 219 Educational Psychology	4
Total	11
Core Requirements	Credits
REC 222 Leisure, Work and Society	4
REC 300 Program Planning and Evaluation	4
REC 406 Capstone: Recreation Internship	4-6

Certification in CPR and First Aid or WFR or WFA	
Total	12-14
Theory Requirements	Credits
EQST 223 Foundations of Equestrian Studies	4
EQST 224 CHA Riding Instructor Certification	3
EQST 276 Dressage	2
EQST 323 Eventing	2
EQST 324 Principles of Training	2
EQST 325 Jumping I	2
EQST 328 Horse Show Judging	2
<i>Choose 4 credits from the following courses</i>	
EQST 230 Basic Western Riding	2
EQST 235 CHA-IRD	1
EQST 240 Teaching Riding in Bolivia	2
EQST 326 Jumping II	2

EQST 327 Mini Prix Equitation	2
EQST 334 Competition Dressage	2
EQST 337 Adventure Trails	2
EQST xxx Independent Study	2
EQST xxx Special Topics	2
Total Theory Requirements	21

MINORS

Equestrian Studies

16 hours

A minor in Equestrian Studies will equip students with a broad base of knowledge in classical horsemanship encompassing theory and philosophy, riding, the teaching of riding, and care of the horse and cultivate Christ-like character enabling them to become effective servant-scholars.

Note: no more than eight hours of EQST courses may be counted towards graduation for students not majoring in Recreation with the equestrian options or minoring in equestrian studies.

Requirements	Credits
REC 222 Leisure, Work and Society	4
EQST 223 Foundations of Equestrian Studies	4
EQST 224 Riding Instructor Certification	3

<i>Equestrian Electives (EQST 200 or above)</i>	5
Total	16

Recreation

14 hours

Requirements	Credits
REC 222 Leisure, Work and society	4
REC 227A/B Outdoor Leadership Training	4
REC 240 Administration of Organized Camps	4
REC 401 Natural Resource Management	4
Electives: (2 credits) REC 100 level or above	

Armenio Suzano, Director and Associate Dean

585.567.9400

Overview

See [Graduate Bulletin](#) for information regarding graduate curricula, faculty, and courses.

Mission: Within a Christ-centered, challenging, liberal arts education, The Greatbatch School of Music, Houghton College endeavors to produce graduates who, through commitment to musical excellence and to intelligent articulation of the integration of faith and music in their lives, can be effective musical practitioners and advocates in the Christian community and in the broader world.

Accreditation: The Greatbatch School of Music is an institutional member of the National Association of Schools of Music, and its curricula conform to NASM published standards.

Liberal arts study in the Greatbatch School of Music, Houghton College: Liberal arts students may study privately on a credit basis, may elect major or minor concentrations in music, and may participate in music ensembles. No more than eight hours of applied music may count toward graduation for students who are not majoring or minoring in music.

Entrance requirements for music majors: Students planning to pursue music major curricula should complete a special music application, in addition to admission to the college. An entrance audition in the major performing area is required. A schedule of such auditions is available at <http://www.houghton.edu/music/undergraduate/auditions/>. A DVD or YouTube audition may be sent, by permission of the director, in cases where an in-person audition is not possible. All appropriate forms, guidelines, supplemental information, and scholarship information are available through the music office or online (www.houghton.edu/music). Call 800.777.2556 or send an email to request these.

Transfer students: Students transferring to Houghton and intending a music major should follow the entrance and application procedures outlined above. In addition, transfer students must complete at least four semester hours at Houghton in their major applied area, regardless of achievement or previous hours completed.

Integrative Studies Requirements - Bachelor of Music Curricula: As part of all Bachelor of Music curricula, students are required to have 32 hours of Integrative Studies credits.

A modified list of IS requirements for students pursuing the B.Mus. degree can be found at [Academic Records Office/Academic Information webpage](#).

The minimum requirement for Music Education-Instrumental (MEI), Composition, and Music Education-Vocal (MEV) Piano Concentration majors is four hours of beginning foreign language. The minimum requirement for Music Education-Voice (MEV) majors, and for Instrumental Performance majors, is eight hours of one foreign language, normally either German (preferred) or French. The minimum requirement for

Vocal Performance majors is 16 hours of beginning language, one year each of French and German. Music majors may satisfy these requirements via placement exam, CLEP, or AP exam.

Summer School: Applied music lessons and composition may be taken for credit during summer school, depending on instructor availability.

Applied Study (private lesson fees charged, see Financial Information): Applied (private lesson) study is available only by permission of the appropriate studio faculty. May be taken for major, minor, or elective credit. Each level number must be taken for a minimum of two credit hours before advancing to the next number. A minimum of two semesters at level (100, 200, etc.) is required before advancing to the next level. Applied study does not carry Integrative Studies credit. *Course Numbering in Applied Study (all performance areas; INST = instrument code)*

Individual Performance Areas	
<i>Brass & Percussion</i>	<i>Strings</i>
EUPH 101-102, 201-202, 301-302, 401-402 Euphonium	BASS 101-102, 201-202, 301-302, 401-402 Double Bass
HORN 101-102, 201-202, 301-302, 401-402 French Horn	GUIT 101-102, 201-202, 301-302, 401-402 Guitar
PERC 101-102, 201-202, 301-302, 401-402 Percussion	HARP 101-102, 201-202, 301-302, 401-402 Harp
TRMB 101-102, 201-202, 301-302, 401-402 Trombone	VCLO 101-102, 201-202, 301-302, 401-402 Violoncello
TRPT 101-102, 201-202, 301-302, 401-402 Trumpet	VILN 101-102, 201-202, 301-302, 401-402 Violin
TUBA 101-102, 201-202, 301-302, 401-402 Tuba	VOLA 101-102, 201-202, 301-302, 401-402 Viola
<i>Keyboard</i>	<i>Woodwinds</i>
HPSC 101-102, 201-202, 301-302, 401-402 Harpsicord	BSSN 101-102, 201-202, 301-302, 401-402 Bassoon

ORGN 101-102, 201-202, 301-302, 401-402 Organ	CLAR 101-102, 201-202, 301-302, 401-402 Clarinet
PIAN 101-102, 201-202, 301-302, 401-402 Piano	FLUT 101-102, 201-202, 301-302, 401-402 Flute
<i>Voice</i>	OBOE 101-102, 201-202, 301-302, 401-402 Oboe
VOIC 101-102, 201-202, 301-302, 401-402 Voice	SAXP 101-102, 201-202, 301-302, 401-402 Saxophone
<i>Special Studies</i>	
SPEC 101-102, 201-202, 301-302, 401-402 Specialized Studies	

Ensembles for non-music majors: All college students are invited to participate in the various musical organizations. Credit is awarded to non-music majors for the various available ensembles (normally one credit per semester), and an academic grade is recorded. By special permission of the conductor, a student may participate in a major ensemble without credit. Chamber ensembles are also formed according to demand, either zero or one credit.

Ensembles that carry Integrative Studies credit include Men's Choir , Women's Choir, Symphonic Wind Ensemble, Houghton Symphony Orchestra, and College Choir. Completion of the IS fine arts requirement normally requires two years' participation in a major ensemble. Membership in major ensembles is on a yearly basis; students enrolled in the fall semester are also expected to participate in that ensemble in the spring semester. A director may occasionally grant an exception to the foregoing, or permit joining for only the second semester.

Non-music majors may participate in any music ensemble, by audition or permission of the director.

Ensembles for music majors: One major ensemble (Men's Choir, Women's Choir, Symphonic Wind Ensemble, Houghton Symphony Orchestra and College Choir, as assigned) is required of all music majors during each semester of residence. All Bachelor of Music majors must also participate in at least one semester of chamber music, small or minor ensemble, or collaborative performance/accompanying (keyboard principal) during their studies. See the [Online Music Student Handbook](#) for applicable discussion.

FACULTY

Judy A. Congdon

Amanda Young Cox

Ken Crane

Patricia Gingras

Sarah Hutchings	Mitchell Hutchings	Sharon L. Johnson	Margaret Kuhl
Janatte LaBarre	Adam Luebke	Anton Machleder	Carrie Magin
Katie Martin	Angela McBrearty	William J. Newbrough	Armenio Suzano, Jr.
Rintaro Wada	Dustin Woodard		

MAJORS

Bachelor of Music in Composition

BMus (68 - 82 hours)

The composition curricula provides a foundation for graduate degree study leading to college/conservatory teaching credentials in composition and theory, as well as professional and/or commercial compositional activity. Students explore a wide variety of musical styles with an emphasis on understanding compositional techniques which may be less familiar to them, such as those of 20th century art music. The senior recital requirement may be met by either a full recital of original compositions, or by a half recital of original compositions plus an original work of significant length and form included in another performance. The composer must serve as a performer or conductor for at least one of the pieces on the senior recital.

Entering Composition majors are expected to enter with performance proficiency equivalent to INST 201 in the principal instrument concentration and PIAN 101 (if the principal instrument concentration is not the piano). Required graduation levels are minimum 6 hrs at or above INST 301 in the principal instrument concentration and minimum 4 hrs of piano at or above PIAN 201 if the principal instrument concentration is not the piano.

Course Requirements	Credits
COMP 201-402 Applied Composition	16
INST 201+ Applied Music (Required piano: minimum 4 hours at or above PIAN 201	6 - 18
PERF 485 Senior Capstone: Senior Recital	0

MUS 229 Basic Conducting	2
MUS 329 Choral Conducting or MUS 430 Instrumental Conducting	2
MUS- Ensembles (with or without credit - 8 semesters)	0
MED 227 String Techniques	2
MED 240 Percussion Techniques	2
MED 241 Brass Techniques	2
MED 242 Woodwind Techniques	2
MHS 230-380 Music History and Literature I-III	9
MUS 250 Music in Christian Perspective	2
MUS 356 Vocal Pedagogy (Voice concentration only)	(2)
MTH 220, 221, 227, 228, 325, 326, 327, 328 Theory	16
Advanced Coursework	Credits
At least one course chosen from MTH 458 Sixteenth Century Counterpoint or MTH 462 Form and Analysis or MTH courses numbered 500 and above, with permission.	3 or 6
If only one MTH prefix is chosen, the second advanced course may be MHS 490 Topics in Music History.	3 (if MTH credits are 3)

Advanced Coursework Total	6
Major Total	68 - 82

Bachelor of Music - Senior Capstone Experience

As a culminating experience in any bachelor of music curriculum, the degree candidate shall successfully complete the senior capstone experience. Composition majors must prepare and successfully present a full senior composition recital as detailed in paragraph one.

Bachelor of Music in Music Education - Alternate Applied Concentration in Composition (MEI-C)

BMus (55 - 59 hours in music courses; 40 hours in professional education)

Students pursuing this major must meet the entrance and graduation proficiency requirements cited under the BMus Composition major.

Music education curricula prepare students for teaching music in grades PK-12. Entrance levels and graduation requirements vary for the four curricula as outlined below. These curricula meet all teacher certification requirements of the Board of Regents of the University of the State of New York.

Admission to the path within the Houghton College Teacher Education area is by application, and continuation in the program requires meeting the standards outlined below. The Teacher Education Committee takes into account each candidate's prospects for successful completion of courses and field placement requirements in its decisions. Preparing to become a music teacher involves more than academic preparation in the college class-room. Part of the process of becoming an effective music educator includes cultivating professional behaviors, attitudes and dispositions that are expected of professionals in this field. To that end, prospective teacher education students must demonstrate acceptable evidence of professional dispositions for admittance into and continuation along this path.

For admission to the appropriate path within the Houghton College Teacher Education area, the student must:

1. Complete an application (available from the department office, 200 Chamberlain Center or from the office of the Coordinator of Music Education),
2. Receive formal sophomore review approval from the music faculty,
3. Successfully complete the writing sample assessment,
4. Present a cumulative grade point average of at least 2.5,
5. Demonstrate acceptable evidence of professional dispositions, and
6. Receive formal approval from the Teacher Education Committee.

To be approved for **music student teaching**, a student must:

1. Complete and submit the Application for Professional Field Semester **by the end of the second week of the spring semester prior to the requested fall semester placements**,
2. Have successfully completed all appropriate music education courses as outlined in the college catalog,
3. Have completed MED 210, 211 and 100 clock hours of observation in public or private schools,
4. Have successfully completed all required professional education courses as follows: EDUC 217 or 218, 219 and 235,
5. Present a cumulative grade point average of at least 2.7,
6. Demonstrate acceptable evidence of professional dispositions,
7. Complete all state-mandated training sessions required for certification by the end of the sophomore year (completed in EDUC 202 Topics in Professionalism),
8. Complete all of the required contact hours, and
9. Receive formal approval from the Teacher Education Committee.
10. Complete piano proficiency benchmarks I-VIII

Required Music Courses	Credits
INST 201+ Applied Music (at or above INST 201)	10
COMP 201-202 Applied Composition	6
VOIC 101 Voice (beyond voice proficiency)	1
PERF 485 Senior Capstone: Senior Recital (Composition)	0
MUS 229 Basic Conducting	2
MUS 430 Instrumental Conducting	2
MUS- Ensembles (7 semesters, zero or 1 credit)	0
MUS 222, 223, or 224 Jazz Workshop	1
PIAN 101- Complete Piano Proficiency Benchmarks 1-8(instrumental concentration only)	(0-3)
MHS 230, 280, 380 Music History I, II, III	9
MUS 250 Music in Christian Perspective	2

MTH 220, 221, 227, 228, 325, 326, 327, 328 Theory	16
<i>Advanced theory course chosen from the following courses:</i>	
MTH 458 Sixteenth Century Counterpoint or MTH 463 Form and Analysis or MTH courses numbered 500 and above, with permission	3
Music Total	55-59
Required Professional Education Courses	Credits
EDUC 202 Topics in Professionalism	0
EDUC 219 Educational Psychology	4
EDUC 217 Education & American Culture	4
EDUC 235 Educating Exceptional Learners	4
MED 210 Field Experience in Music Education	2
MED 211 Workshop: Language Acquisition and Literacy Development	0
MED 227-242 Strings, Brass, Percussion, Woodwind Techniques	8
MED 351 Elementary School Methods	2
MED 354 Instrumental Methods	2
MED 405 Student Teaching	12
MED 419 Student Teaching Seminar	2
Professional Total	40
Major Total	95 - 99

As a culminating experience in any bachelor of music curriculum, the degree candidate shall successfully complete the senior capstone experience. Music education majors prepare and present a composition half-recital as well as successfully complete music student teaching and its attendant seminar (MED 405, 419).

Bachelor of Music in Music Education - Alternate Applied Concentration in Composition (MEV-C)

BMus (62-66 hours in music courses; 32 hours in professional education courses)

Students pursuing this major must meet the entrance and graduation proficiency requirements cited under the BMus Composition major.

Music education curricula prepare students for teaching music in grades PK-12. Entrance levels and graduation requirements vary for the four curricula as outlined below. These curricula meet all teacher certification requirements of the Board of Regents of the University of the State of New York.

Admission to the path within the Houghton College Teacher Education area is by application, and continuation in this path requires meeting the standards outlined below. The Teacher Education Committee takes into account each candidate's prospects for successful completion of courses and field placement requirements in its decisions. Preparing to become a music teacher involves more than academic preparation in the college class-room. Part of the process of becoming an effective music educator includes cultivating professional behaviors, attitudes and dispositions that are expected of professionals in this field. To that end, prospective teacher education students must demonstrate acceptable evidence of professional dispositions for admittance into and continuation along this path.

For admission to the appropriate path within the Houghton College Teacher Education area, the student must:

1. Complete an application (available from the department office, 200 Chamberlain Center or from the office of the Coordinator of Music Education),
2. Receive formal sophomore review approval from the music faculty,
3. Successfully complete the writing sample assessment,
4. Present a cumulative grade point average of at least 2.5,
5. Demonstrate acceptable evidence of professional dispositions, and
6. Receive formal approval from the Teacher Education Committee.

To be approved for **music student teaching**, a student must:

1. Complete and submit the Application for Professional Field Semester **by the end of the second week of the spring semester prior to the requested fall semester placements**,
2. Have successfully completed all appropriate music education courses as outlined in the college catalog,
3. Have completed MED 210, 211 and 100 clock hours of observation in public or private schools,
4. Have successfully completed all required professional education courses as follows: EDUC 217 or 218, 219 and 235,
5. Present a cumulative grade point average of at least 2.7,
6. Demonstrate acceptable evidence of professional dispositions,

7. Complete all state-mandated training sessions required for certification by the end of the sophomore year (completed in EDUC 202 Topics in Professionalism),
8. Complete all of the required contact hours, and
9. Receive formal approval from the Teacher Education Committee.

Required Music Courses	Credits
INST 201+ Applied music (at or above INST 201)	10
COMP 201-202 Applied Composition	6
VOIC 101 Voice (beyond MCLV; keyboard concentration only)	(2)
PERF 485 Senior Capstone: Senior Recital (Composition)	0
MCHU 475 Service Playing, Piano (piano concentration only)	(1)
MCHU 476 Service Playing, Organ (organ concentration only)	(2)
MUS 229 Basic Conducting	2
MUS 329 Choral Conducting	2
MED 330 Keyboard Skills (keyboard concentration only)	(2)
MUS- Ensembles (7 semesters, with or without credits)	0
MUS 353 Opera Theatre	1
PIAN 101 - Compete Piano Proficiency Benchmarks 1-8 (voice concentration only)	(0-6)

MHS 231-334 Music History and Literature I-IV	10
MUS 219-220 Foreign Language Diction	2
MUS 250 Music in Christian Perspective	2
MUS 356 Vocal Pedagogy (voice concentration only)	(2)
MTH 220, 221, 227, 228, 325, 326, 327, 328, 367 Theory	18
<i>Advanced theory course chosen from the following courses:</i>	
MTH 458 Sixteenth Century Counterpoint or MTH 463 Form and Analysis or MTH courses numbered 500 and above, with permission	3
Music Total	62 - 66
Required Professional Education Courses	Credits
EDUC 202 Topics in Professionalism	0
EDUC 219 Educational Psychology	4
EDUC 217 Education & American Culture	4
EDUC 235 Educating Exceptional Learners	4
MED 210 Field Experience in Music Education	2
MED 211 Workshop: Language Acquisition and Literacy Development	0

MED 351 Elementary School Methods	2
MED 352 Secondary School Methods	2
MED 405 Student Teaching	12
MED 419 Student Teaching Seminar	2
Professional Total	32
Major Total	94 - 98

As a culminating experience in any bachelor of music curriculum, the degree candidate shall successfully complete the senior capstone experience. Music education majors prepare and present a composition half-recital as well as successfully complete music student teaching and its attendant seminar (MED 405, 419).

Bachelor of Music in Music Education - Instrumental emphasis (MEI)

BMus (53 - 58 hours in music courses; 40 hours in professional education)

Music education curricula prepare students for teaching music in grades PK-12. Entrance levels and graduation requirements vary for the four curricula as outlined below. These curricula meet all teacher certification requirements of the Board of Regents of the University of the State of New York.

Admission to the path within the Houghton College Teacher Education area is by application, and continuation in this path requires meeting the standards outlined below. The Teacher Education Committee takes into account each candidate's prospects for successful completion of courses and field placement requirements in its decisions. Preparing to become a music teacher involves more than academic preparation in the college class-room. Part of the process of becoming an effective music educator includes cultivating professional behaviors, attitudes and dispositions that are expected of professionals in this field. To that end, prospective teacher education students must demonstrate acceptable evidence of professional dispositions for admittance into and continuation along this path.

For admission to the appropriate path within the Houghton College Teacher Education area, the student must:

1. Complete an application (available from the department office, 200 Chamberlain Center or from the office of the Coordinator of Music Education),
2. Receive formal sophomore review approval from the music faculty,
3. Successfully complete the writing sample assessment,

4. Present a cumulative grade point average of at least 2.5,
5. Demonstrate acceptable evidence of professional dispositions, and
6. Receive formal approval from the Teacher Education Committee.

To be approved for **music student teaching**, a student must:

1. Complete and submit the Application for Professional Field Semester **by the end of the second week of the spring semester prior to the requested fall semester placements**,
2. Have successfully completed all appropriate music education courses as outlined in the college catalog,
3. Have completed MED 210, 211 and 100 clock hours of observation in public or private schools,
4. Have successfully completed all required professional education courses as follows: EDUC 217 or 218, 219 and 235,
5. Present a cumulative grade point average of at least 2.7,
6. Demonstrate acceptable evidence of professional dispositions,
7. Complete all state-mandated training sessions required for certification by the end of the sophomore year (completed in EDUC 202 Topics in Professionalism),
8. Complete all of the required contact hours, and
9. Receive formal approval from the Teacher Education Committee.
10. Prior to student teaching, must complete Piano Proficiency.
- 11.

Required Music Courses	Credits
INST 201-402 Applied Concentration (minimum 9 hours at or above INST 401)	19
MED 200 Vocal Methods	1

PERF 485 Senior Capstone: Senior Recital	0
MUS 229 Basic Conducting	2
MUS 430 Instrumental Conducting	2
MUS- Ensembles (7 semesters, with or without credit)	0
MUS 222, 223, or 224 Jazz Workshop	1
PIAN 101 - Complete Piano Proficiency Benchmarks 1-8 (instrumental concentration only)	(0 - 5)
MHS 230, 280, 380 Music History I-III	9
MUS 250 Music in Christian Perspective	2

MTH 220, 221, 227, 228, 325, 326, 327, 328 Theory	16
Music Total	52-57
Required Professional Education Courses	Credits
EDUC 202 Topics in Professionalism	0
EDUC 219 Educational Psychology	4
EDUC 217 Education & American Culture	4
EDUC 235 Educating Exceptional Learners	4
MED 210 Field Experience in Music Education	2

MED 211 Workshop: Language Acquisition and Literacy Development	0
MED 227-242 Strings, Brass, Percussion, Woodwind Techniques	8
MED 351 Elementary School Methods	2
MED 354 Instrumental Methods	2
MED 405 Student Teaching	12
MED 419 Student Teaching Seminar	2
Professional Total	40
Major Total	93 - 98

<p>As a culminating experience in any bachelor of music curriculum, the degree candidate shall successfully complete the senior capstone experience. Music education majors prepare and present a solo half-recital as well as successfully complete music student teaching and its attendant seminar (MED 405, 419).</p>	
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Bachelor of Music in Music Education - Vocal emphasis (MEV)

BMus (62-68 hours in music courses; 32 hours in professional education courses)

Music education curricula prepare students for teaching music in grades PK-12. Entrance levels and graduation requirements vary for the four curricula as outlined below. These curricula meet all teacher certification requirements of the Board of Regents of the University of the State of New York.

Admission to the path within the Houghton College Teacher Education area is by application, and continuation in this path requires meeting the standards outlined below. The Teacher Education Committee takes into account each candidate's prospects for successful completion of courses and field placement requirements in its decisions. Preparing to become a music teacher involves more than academic preparation in the college classroom. Part of the process of becoming an effective music educator includes cultivating professional behaviors, attitudes and dispositions that are expected of professionals in this field. To that end, prospective teacher education students must demonstrate acceptable evidence of professional dispositions for admittance into and continuation along this path.

For admission to the appropriate path within the Houghton College Teacher Education area, the student must:

1. Complete an application (available from the department office, 200 Chamberlain Center or from the office of the Coordinator of Music Education),
2. Receive formal sophomore review approval from the music faculty,
3. Successfully complete the writing sample assessment,
4. Present a cumulative grade point average of at least 2.5,
5. Demonstrate acceptable evidence of professional dispositions, and
6. Receive formal approval from the Teacher Education Committee.

To be approved for **music student teaching**, a student must:

1. Complete and submit the Application for Professional Field Semester **by the end of the second week of the spring semester prior to the requested fall semester placements**,

2. Have successfully completed all appropriate music education courses as outlined in the college catalog,
3. Have completed MED 210, 211 and 100 clock hours of observation in public or private schools,
4. Have successfully completed all required professional education courses as follows: EDUC 217 or 218, 219 and 235,
5. Present a cumulative grade point average of at least 2.7,
6. Demonstrate acceptable evidence of professional dispositions,
7. Complete all state-mandated training sessions required for certification by the end of the sophomore year (completed in EDUC 202 Topics in Professionalism),
8. Complete all of the required contact hours, and
9. Receive formal approval from the Teacher Education Committee.
10. Must complete Piano Proficiency prior to Student Teaching.

Required Music Courses	Credits
INST 201-402 Applied Concentration (minimum 7 hours at or above INST 401)	19
MED 200 Vocal Methods (Beyond voice proficiency; keyboard concentration only)	1
PERF 485 Senior Capstone: Senior Recital	0
MUS 229 Basic Conducting	2
MUS 329 Choral Conducting	2
Complete Piano Proficiency Benchmarks 1-8	
MUS- Ensembles (7 semesters, with or without credits)	0
MUS 353 Opera Theatre	1
PIAN 101- Complete Piano Proficiency Benchmarks 1-8 (voice concentration only)	(0 - 6)
MHS 230, 280, 380 Music History I-III	9
MUS 219-220 Foreign Language Diction	2
MUS 250 Music in Christian Perspective	2
MUS 356 Vocal Pedagogy (voice concentration only)	(2)

MTH 220, 221, 227, 228, 325, 326, 327, 328, 367 Theory	18
Music Total	58-64
Required Professional Education Courses	Credits
EDUC 202 Topics in Professionalism	0
EDUC 219 Educational Psychology	4
EDUC 217 Education & American Culture	4
EDUC 235 Educating Exceptional Learners	4
MED 210 Field Experience in Music Education	2
MED 211 Workshop: Language Acquisition and Literacy Development	0
MED 351 Elementary School Methods	2
MED 352 Secondary School Methods	2
MED 405 Student Teaching	12
MED 419 Student Teaching Seminar	2
Professional Total	32
Major Total	90-96

As a culminating experience in any bachelor of music curriculum, the degree candidate shall successfully complete the senior capstone experience. Music education majors prepare and present a solo half-recital as well as successfully complete music student teaching and its attendant seminar (MED 405, 419).

Bachelor of Music in Performance - Instruments: Brass, Guitar, Percussion, Strings, or Woodwinds

BMus (79 - 82 hours)

Performance curricula give initial preparation for careers as solo performers in concert, recording, or church fields; as accompanists, as private studio teachers; as professional ensemble members; as junior college or Bible school faculty, or college teachers (after advanced study). Practical experience in teaching is desirable during junior/senior years. Highest level of performance is expected.

Required Music Courses	Credits
INST 301-402 Major Applied Studies (minimum 16 hours at or above INST 401)	30
INST 101+ Applied minor in major family	4
PIAN 101 Complete Piano Proficiency Benchmarks 1-8	3 - 6
PERF 385 Junior Recital	0
PERF 485 Senior Capstone: Senior Recital	0
MUS 229 Basic Conducting	2
MUS 430 Instrumental Conducting	2
MUS- Ensembles (zero or 1 credit - 8 semesters)	0
MHS 230, 280, 330 Music History I-III	9
MLT 450, 451, 452, or 453 Instrumental Literature	2
MUS 250 Music in Christian Perspective	2
MTH 220, 221, 227, 228, 325, 326, 327, 328 Theory	16
<i>Choose one of the following courses:</i>	(2)
MED 227 String Techniques	2

MED 240 Percussion Techniques	2
MED 241 Brass Techniques	2
MED 242 Woodwind Techniques	2
Advanced Coursework: <i>Choose at least one of the following MTH courses:</i>	(6)
MTH 458 Sixteenth Century Counterpoint	3
MTH 462 Form and Analysis	3
MTH 466 Orchestration	3
MTH courses numbered 500 and above, with permission	3
<i>If only one MTH prefix is chosen, the second advanced course may be MHS 490, Topics in Music History.</i>	3
Total	78-81

As a culminating experience in any bachelor of music curriculum, the degree candidate shall successfully complete the senior capstone experience. Performance majors prepare and successfully present two public performances of literature on the principal instrument: the junior-senior recital sequence MUS 385/485.

Bachelor of Music in Performance - Organ

BMus (79 hours)

Performance curricula give initial preparation for careers as solo performers in concert, recording, or church fields; as accompanists, as private studio teachers; as professional ensemble members; as junior college or Bible school faculty, or college teachers (after advanced study). Practical experience in teaching is desirable during junior/senior years. Highest level of performance is expected.

Required Music Courses	Credits
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ORGN 301-402 (minimum 16 hours at or above ORGN 401)	30
PIAN 201-202 Piano (at or above PIAN 201)	5
PERF 385 Junior Recital	0
PERF 485 Senior Capstone: Senior Recital	0
MCHU 476 Service Playing, organ	2
MUS 229 Basic Conducting	2
MUS- Ensembles (with or without credit - 8 semesters)	0
MHS 230, 280, 380 Music History I-III	9
MLT 470 Organ Literature	2
MUS 250 Music in Christian Perspective	2
MUS 470 Organ Pedagogy	2
MED 330 Keyboard Skills	2
MTH 220, 221, 227, 228, 325, 326, 327, 328 Theory	16
Advanced Coursework: <i>Choose at least one of the following MTH courses:</i>	(6)
MTH 458 Sixteenth Century Counterpoint	3

MTH 462 Form and Analysis	3
MTH 466 Orchestration	3
MTH courses numbered 500 and above, with permission	3
<i>If only one MTH prefix is chosen, the second advanced course may be MHS 490, Topics in Music History.</i>	3
Total	76

As a culminating experience in any bachelor of music curriculum, the degree candidate shall successfully complete the senior capstone experience. Performance majors prepare and successfully present two public performances of literature on the principal instrument: the junior-senior recital sequence MUS 385/485.

Bachelor of Music in Performance - Piano

BMus (77 hours)

Performance curricula give initial preparation for careers as solo performers in concert, recording, or church fields; as accompanists, as private studio teachers; as professional ensemble members; as junior college or Bible school faculty, or college teachers (after advanced study). Practical experience in teaching is desirable during junior/senior years. Highest level of performance is expected.

Required Music Courses	Credits
PIAN 301-402 (minimum 16 hours at or above PIAN 401)	30
INST 101-102 Applied Minor (organ strongly recommended)	5
PERF 385 Junior Recital	0
PERF 485 Senior Capstone: Senior Recital	0
MUS 229 Basic Conducting	2

MUS- Ensembles (with or without credit - 8 semesters)	0
MHS 230, 280, 380 Music History and Literature	9
MLT 480 Piano Literature	2
MUS 250 Music in Christian Perspective	2
MUS 477 Piano Pedagogy	3
MTH 220, 221, 227, 228, 325, 326, 327, 328 Theory	16
Advanced Coursework: <i>Choose at least one of the following MTH courses:</i>	(6)
MTH 458 Sixteenth Century Counterpoint	3
MTH 462 Form and Analysis	3
MTH 466 Orchestration	3
MTH courses numbered 500 and above, with permission	3
<i>If only one MTH prefix is chosen, the second advanced course may be MHS 490, Topics in Music History.</i>	3
Total	75

As a culminating experience in any bachelor of music curriculum, the degree candidate shall successfully complete the senior capstone experience. Performance majors prepare and successfully present two public performances of literature on the principal instrument: the junior-senior recital sequence MUS 385/485.

Bachelor of Music in Performance - Voice

BMus (80 - 83 hours)

Performance curricula give initial preparation for careers as solo performers in concert, recording, or church fields; as accompanists, as private studio teachers; as professional ensemble members; as junior college or Bible school faculty, or college teachers (after advanced study). Practical experience in teaching is desirable during junior/senior years. Highest level of performance is expected.

The minimum requirement for Vocal Performance majors is 16 hours of beginning language, one year each of French and German. Vocal Performance majors may satisfy these requirements via placement exam, CLEP, or AP exam.

Required Music Courses	Credits
VOIC 301-402 Voice (minimum 16 hours at or above VOIC 401)	28
PIAN 101 Piano Proficiency Benchmarks	6 - 9
PERF 385 Junior Recital	0
PERF 485 Senior Capstone: Senior Recital	0
MLT 460 Vocal Literature	2
MUS- Ensembles (zero to 1 credit - 8 semesters)	0
MUS 229 Basic Conducting	2
MUS 329 Choral Conducting	2
MHS 230, 280, 380 Music History I-III	9
MUS 219-220 Foreign Language Diction	2
MUS 250 Music in Christian Perspective	2

MUS 219-220 Vocal Pedagogy	2
MTH 220, 221, 227, 228, 325, 326, 327, 328 Theory	16
Advanced Coursework: <i>Choose at least one of the following MTH courses:</i>	(6)
MTH 458 Sixteenth Century Counterpoint	3
MTH 462 Form and Analysis	3
MTH 466 Orchestration	3
MTH courses numbered 500 and above, with permission	3
<i>If only one MTH prefix is chosen, the second advanced course may be MHS 490, Topics in Music History.</i>	3
Total	79-82

As a culminating experience in any bachelor of music curriculum, the degree candidate shall successfully complete the senior capstone experience. Performance majors prepare and successfully present two public performances of literature on the principal instrument: the junior-senior recital sequence MUS 385/485.

Bachelor of Music with Non-Music Elective Studies

BMus (60 hours in music requirements; plus 18 - 33 hours in non-music electives)

This innovative, flexible curriculum provides an excellent option for musicians combining a passion for music with other interests and talents, providing the opportunity to combine in-depth with significant, focused work (18 hours minimum, up to 33 hours) in another discipline. The range of possibilities can be as creative as the interests and abilities of the student permits.

Course Requirements	Credits
INST 201-401 Major Applied Studies (minimum 3 hours at or above INST 401)	15

MUS 229 Basic Conducting	2
MUS 250 Music in Christian Perspective	2
MUS- Ensembles (with or without credit - 8 semesters)	0
MHS 230, 280, 380 Music History I-III	9
PIAN 101 - Complete Piano Proficiency Benchmarks 1-8	0 - 4
MTH 220, 221, 227, 228, 325, 326, 327, 328, 367 Music Theory	18
Music Electives	6 - 13
Music Capstone	0 - 3
Music Total needs to equal 60	60
Non-music Elective studies (must include the minor in any discipline offering the minor)	18 - 33
Major Total	77 - 92

As a culminating experience in any bachelor of music curriculum, the degree candidate shall successfully complete the senior capstone experience. The BMUS with Non-Music Elective Studies degree candidate shall:

1. Prepare and successfully present a public performance of literature on the principal instrument, either as a solo half-recital or as a lecture-recital, with accompanying approved program notes, or
2. Prepare a paper or project examining some aspect of music, either alone or in relationship to another field of inquiry, or
3. Participate in an internship appropriate to the major or majors chosen.

Music (BA)

Course Requirements	Credits
INST 201-202 Applied Music (6 hours at or above INST 201) must b3 6 semesters of 1 credit hour each minimum	6
MUS- Ensembles (Each semester of residence, with or without credit)	0
MUS 230, 280, 380 Music History I-III (any 2)	6
MLT 211 Music & Listening: an Introduction	3
MUS 250 Music in Christian Perspective	2
MTH 200, 220, 221, 227, 228, 325, 326, 327, 328 Theory	16
Electives in Music (211 or above)	6
Total	39

Senior Capstone Requirement

As a culminating experience in the music major, the degree candidate shall:

1. Prepare and successfully present a public performance of literature on the principal instrument, either as a solo half-recital or as a lecture-recital, with accompanying approved program notes, or
2. Prepare a paper or project examining some aspect of music, either alone or in relationship to another field of inquiry, or
3. Participate in an internship appropriate to the major or majors chosen.

The BA degree in music can be combined with other curricula in a double major. Business administration, communication, and psychology are combinations often selected. These combinations are valuable for those wishing to work in some aspect of the music industry. Suggested course sequences may be found in the Music Student Handbook. An audition is required to establish an appropriate performance course level.

For those interested in full-time Christian service with music as a component, a double major with either Bible or Christian Formation (see those respective majors) is recommended. With this major, directed electives in church music should be chosen. An audition is required to establish an appropriate performance course level.

BA music majors must maintain membership in a major ensemble (see ensembles section) with or without credit. Choice of ensemble is made with the School of Music director's approval.

The recital attendance requirement for BA majors is ten performances per semester for any four semesters of residence.

MINORS

Applied Music Minor

16 hours

Sixteen hours in one performance area (minimum 8 hours at or above level 201 and one year in an appropriate ensemble), normally consisting of 14 hours of applied study and 2 hours of ensemble. A hearing is required to establish appropriate placement of study. Limited enrollment in some areas based on teacher availability.

Instrumental and Vocal Requirements: voice, violin, viola, violoncello, double bass, guitar, trumpet, French horn, trombone, euphonium, tuba, flute, oboe, clarinet, saxophone, bassoon, percussion		Credits
14 hours of applied music		14
2 hours of ensemble		2
Total		16

Piano Requirements	Credits
14 hours of piano	14
2 hours of ensemble	2
Total	16

Organ Requirements	Credits
14 hours of organ	14
2 hours of ensemble	2

Total	16
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Keyboard	Credits
14 hours of piano and organ combined	14
2 hours of ensemble	2
Total	16

Contract Minor in Music

16 hours

The Elective Minor in Music is a special 16-hour concentration of selected courses developed to meet the student's individual interests as approved by the director of the Greatbatch School of Music. May include some applied and/or ensemble work, but requires a minimum of 8 credits of coursework other than applied lessons or ensembles. The plan of the course of study agreed to by the student and department is placed on file in the Academic Records Office.

Music Minor in Music Industry

17 hours

Requirements	Credits
MTH 220 Music Theory I	3
MTH 221 Musicianship I	1
MTH 227 Music Theory II	3
MTH 228 Musicianship II	1
MBCM 206 Introduction to Music Business	3
MUS 207 Introduction to Pro Tools	3
MUS 208 ProTools Production I	3

MUS 181 Practicum in Sound and Recording	0
Total	17

David Kinman, chair | Marcus Dean, Area Associate Dean

585.567.9670

Overview

In today’s global society, linguistic isolation has serious consequences for the economic, social and political health of our nation, but even more, it impedes obeying the Commission to go into the world with the message of the Gospel. We seek, therefore, to provide an exciting intellectual environment which facilitates mastery of foreign languages and their related cultures, history, literature, and linguistics. Our graduates pursue a variety of careers such as teaching, international banking, law, social work, diplomacy, missions and Bible translation.

Majors are required to spend one semester off-campus studying in the target language. Study-abroad options are available in countries such as France, Canada, Spain, Columbia, Guatemala, Costa Rica, Germany and Austria. The specific study abroad opportunity and courses need to be approved by the student’s academic advisor. Majors are required to take INCL 211 Intercultural Transition before embarking on an off-campus opportunity. Normally, native speakers of French or Spanish are not admitted to the conversation courses for credit.

Teaching Spanish - Inclusive Childhood (Elementary) or Adolescence (Secondary) Education: See Education section in this catalog.

CDRP: Cross-disciplinary Research Project - A collaborative effort between the World Languages Department and select academic disciplines, allowing qualified students to enrich their studies in both areas through a joint research project. Consult the World Languages Department for specific guidelines and eligibility requirements.

FACULTY

Marlene G. Collins-Blair Marcus W. Dean David Kinman Eva Meilaender

Jean-Louis Roederer

MAJORS

Spanish

BA: The Spanish major consists of 34 credit hours.

Prerequisites (These may be met through placement testing or previous work)	Credits
SPAN 101 Spanish Level 1	4
SPAN 102 Spanish Level 2	4
SPAN 205 Intermediate Spanish	4
Total	12
Co-requisite	Credits
INCL 211 Intercultural Transition	0 - 1
Total	0 - 1
Required Core Courses	Credits
SPAN 301 Spanish Communication	4
SPAN 305 Spanish Phonetics	4
SPAN 350 Advanced Spanish Grammar and Composition	4
SPAN 405 Civilization and Culture of Latin America	2
SPAN 406 Civilization and Culture of Spain	2
SPAN 485 Senior Seminar: Spanish	2
Total	18
Open Options	Credits
<i>Must take at least one course in Latin-American Literature from the following courses.</i>	
SPAN 412 Latin American Human Rights Narratives	4
SPAN 415 Evita and Her Sisters: Women in Latin American Lit	4

SPAN 418 Latin American Boom Literature	4
SPAN 423 Masterpieces of Latin-American Literature	4
<i>Must take at least one course in Spanish Peninsular Literature from the following courses.</i>	
SPAN 401 Survey of Spanish Literature	4
SPAN 402 Spanish Literature and Film	4
SPAN 416 Eve and Mary in Spanish Literature	4
SPAN 417 Female Voice in Spanish Literature	4
<i>Other Open Options</i>	
SPAN 207/346 Aspects of Costa Rica Mayterm	4
SPAN 312 The Latino in the U.S.	4
SPAN 391 Spanish Independent Study	1 - 4
SPAN 410 Advanced Conversation: Film and Culture	4
SPAN 414 Faith and Society in Latin America	4
SPAN 481 Spanish Internship	1 - 4
SPAN 496 Honors in Spanish	4
Study abroad electives	1 - 4
Total Open Options	16

Students are required to take a semester off campus in a Spanish speaking country. The location and courses will need to be approved by your academic advisor.

MINORS

French Self-Designed minor

14 - 16 hours

A 14-16-hour Self-Designed minor with courses beyond 102 level as determined by arrangement with the Chair of the Department of World Languages & Literatures. A special course of study is developed to meet the student's specific goals and is signed prior to the taking of the courses. The signed course of study is placed on file in the Academic Records Office.

German Self-Designed minor

14 - 16 hours

A 14-16-hour Self-Designed minor with courses beyond 102 level as determined by arrangement with the Chair of the Department of World Languages & Literatures. A special course of study is developed to meet the student's specific goals and is signed prior to the taking of the courses. The signed course of study is placed on file in the Academic Records Office.

Spanish

16 hours

16 hours of SPAN courses beyond SPAN 102. It may also include SPAN 205 Intermediate Spanish.

Course Descriptions

105 Introduction to Human Communication

3-F

An introduction to the fundamental components of the human communication process. This course focuses on enhancing communication competence by developing knowledge and skills critical to effective communication, equipping students to achieve their objectives in a variety of communication situations. Emphasis on oral proficiency in dyadic, group, and public communication settings.

ACCT 211 Financial Accounting

3-F

Basic theory and practices of financial accounting. Emphasis on the proper recording of business transactions and understanding the effect transactions have on the financial statements of proprietorships, partnerships, and corporations. Includes analysis of key financial statement data.

ACCT 212 Managerial Accounting

3-S

Basic theories and practices of providing accounting information for use by decision makers within the

Prerequisite(s):ACCT 211, BADM 45

ACCT 295, 395, 495 Special Topics

1-4-WSP

Group study of special topics.

ACCT 311 Intermediate Accounting I

3-F

Intensive study of financial accounting issues including measurement, valuation, and reporting of balance sheet items.

Prerequisite(s):ACCT 211, ACCT 212

ACCT 312 Intermediate Accounting II

3-S

Extension of ACCT 311, with emphasis on accounting for notes, bonds, pensions, leases, taxes, equity transactions, and on preparation of cash flow statements.

Prerequisite(s):ACCT 311

ACCT 314 Cost Accounting

3-F13, F15, F17

Evaluation and analysis of an organization's internal accounting information needs with special emphasis on the manufacturing environment. Topics covered include job order, process, standard, and activity-based cost accounting systems, allocations, budgeting, profit-volume analysis, and behavioral considerations.

Prerequisite(s):BADM 212

ACCT 315 Auditing

4-F13, F15, F17

Comprehensive introduction to the practices and procedure used by internal auditors and CPAs in their attestation role relative to external financial reporting and the evaluation of internal controls. Emphasis is placed on the legal and ethical requirements of the auditor, including Sarbanes-Oxley. Prerequisite: ACCT 212 or

ACCT 316 Federal Income Tax

4-F14, F16

Introduction to history and development of federal income tax. Study directed principally toward preparation of individual returns under IRS code, but also includes partnership and corporate returns and tax implications of management decisions. Prerequisite: courses listed below or permission.

Prerequisite(s): ACCT 211, ACCT 212

ACCT 323 Tax Practicum (P/U)

1-S

Supervised preparation of tax returns through the VITA (Voluntary Income Tax Assistance) Program using resources and guidance provided by the Internal Revenue Service (IRS). Prerequisite: ACCT 316 or permission of

ACCT 418 Advanced Accounting

3-S14, S16

Addresses complex issues in accounting including business combinations, consolidated statements, partnerships, government & not-for-profit organizations, foreign operations, and other current topics in the

Prerequisite(s): ACCT 316

ACCT 421 Internship in Accounting (P/F)

2-6-F, S, or Summer

Supervised experience in corporate or public accounting combining the theoretical background of coursework with practical activities in a professional setting.

ANTH 195, 295, 395 Special Topics

1, 2, 3, or 4-WSP

ANTH 243 Cultural Anthropology (CDRP, see Foreign Languages)

4-F

Cultural and social aspects of human behavior; comparison of cultures. Community: Anthropology. Liberal Arts.

ANTH 291, 391, 491 Independent Studies

1, 2, 3, or 4-WSP

Liberal Arts.

ANTH 296 Special Topics in Anthropology

2 or 4-WSP

Topics offered according to interest and demand. Liberal Arts.

ANTH 310 Intercultural Competencies

4-F&S

Explores the knowledge, attitudes, and skills for transitioning into, adapting to, working in, and functioning successfully in an intercultural context. Key topics include cultural values, intercultural communication, researching culture, being a change agent, dealing with conflict, and working with individuals from another culture. Prerequisite for INCL majors/minors: Introduction to Global Issues and Cultural Anthropology, or permission of instructor. Required for INCL 311. Liberal Arts.

ANTH 350 Culture Change and Its Effects on Traditional Societies

4-F

Globalization is spreading rapidly around the world, and this is causing significant culture change to traditional societies. With a strong focus on history and case studies, this course will make students aware of what is happening and give them the theoretical knowledge to understand, empathize with, and assist people who are wrestling with change. Pre- or Co-requisite: Cultural Anthropology. Liberal Arts.

ARAB 101 Arabic Language

4-WSP

Arabic is spoken in various regional dialects throughout the Arab world. This class introduces Modern Standard Arabic (MSA), the commonly understood language used in all media and the academic and intellectual community. While MSA is not the "street language" of any particular country, it provides an excellent grounding towards fluency in any particular dialect in the Arab world. Those who wish to go beyond this one semester introduction will be directed to an intensive Arabic program within the Arab world.

ART 131 Introduction to the Visual Arts

2-F or S

Overview of the visual arts illustrating basic principles and underlying philosophy of art. Emphasis on the contemporary. Culture: Art. Liberal Arts.

ART 132 Art and Architecture in Context in Europe

4-May

A course for the non-art student participating in the Mayterm trip to Europe. Approximately 20 days studying art and artists from antiquity to the present. Readings, journal-keeping and questions pertaining to site-specific works are required. (off campus study abroad course) Culture: Art. Liberal Arts.

ART 211 Drawing I

2-F&S

Basic introduction to drawing media and techniques; exploration of concepts of form and space in varied subject matter. Culture: Art. Lab fee,

ART 212 Abstract Drawing

4-S

This course explores the possibilities of drawing that are based on conceptual rather than perceptual knowledge. A wide variety of conceptual sources will be introduced, such as variations of spatial components; non-figurative images based on biomorphic or gestural motifs; compositional dynamics; tonal and color explorations; and the variation of mark as an expressive element. A wide variety of experimentation with surfaces, materials, and applications will be encouraged. Emphasis will also be placed on the selection of an idea both in terms of process and materials. The development of abstraction in the 20th century and relevant major artists will be studied and used for reference. Culture: Art. Lab fee.

ART 215 Etching

2-F

This course is an introduction to the basic techniques, processes and history of etching. Etching was developed in the early 16th century and has been a favorite media to many artists including Rembrandt, Goya, Picasso and Dine. This course will focus on traditional methods of working etching plates. Intaglio techniques include a number of rich and varied processes. The class will cover etching, drypoint, aquatint, use of soft and hard grounds, and the combination of techniques on a single plate. Printing techniques will be demonstrated, including color printing and the registration of multiple plates. Students will work through and generate a body of images associated with a self-directed theme. Culture: Art. Lab fee.

ART 221 Painting I

4-S

Visual problems of space, form, value and color studied in oil paint. Basic problems of pictorial composition and interpretation through representational/abstract approaches to observing life and the still life. Culture: Art. Lab

ART 224 Time, Motion, and Communication

4-F

This course is an introduction to the foundational concepts of communications design in which time is an important formal element. Studio work will explore ways that images and design change over time in ways that enhance narrative or interactive communication: time and motion explored as formal properties; history of time-based communication and interactivity; extensive studio work developing key concepts in time and communication. This course has a lab fee. Liberal Arts.

ART 228 Digital Video I

4-F

This course is an introduction to the movie-making process using digital tools. Students will learn the basics of managing digital workflow and software interface, using a digital video camera, editing in Final Cut Pro, and saving final output to DVD. Also covered are basic principles of storytelling, location production, integration of titles and audio, critique and production skills, and output and archiving. This course has a lab fee.

ART 231 Ancient Art History

4-F15

History of world art from prehistoric to the 14th century. Emphasis on role of art as visual communication of religious, political, and social concerns. Culture: Art. Liberal Arts.

ART 232 Renaissance and Baroque Art History

4-S15

History of Western art from the 14th century to the mid-18th century. Relation of form and content to cultural attitudes. Unique contributions of major artists. Culture: Art. Liberal Arts.

ART 234 Art and Architecture in Europe

4-May

Approximately 20 days studying the art and artists from antiquity to the present. Readings, journal-keeping, and questions pertaining to site-specific works are requirements. Course is intended for the art major. (Off-campus study abroad course) Culture: Art. Liberal Arts.

ART 235 African Art History

4-May;-WSP

A selective survey of the visual arts produced on the African continent from antiquity through the present. Consideration of colonial influences on African art and African art's influence on Western art, including the African American Diaspora. Emphasis upon seeing and understanding art in the context of daily life, religion and society. (off campus study abroad course, takes place in Tanzania) Culture: Art. Liberal Arts.

ART 236 Asian Art History Survey

4-S15

History of the art of Asian cultures, from ancient times to the present. Introduction to major ideas, periods, methods, and materials with emphasis on the art of China and Japan and their impact on the art of the west. Overview of India, Korea, Islam, and tangential cultures. Culture: Art. Liberal Arts.

ART 237 Modern and Contemporary Western Art History

4-F14

History of Western art from the mid-18th century through the early 21st century. Analysis of major movements and artists, their underlying philosophy and cultural influences, and the role of critics in shaping dialogue. Culture: Art. Liberal Arts.

ART 241 Two-dimensional Design

2-F

Theory and application of compositional elements and principles of design. Experiences in two-dimensional problem solving. Lecture, group critiques, discussion.

ART 242 Three-dimensional Design

2-F

Theory and application of elements of three-dimensional design through model-scale sculptural projects. Awareness and comprehension of three-dimensional structural and spatial relationships.

ART 245 Graphic Design I

4-F&S

Introduction to theory and practice of graphic design communication. Emphasis on techniques for exploration of two-dimensional problems, and interpretation of verbal to visual form. Computer design is introduced. Culture: Art. Lab fee.

ART 251 Sculpture I

4-WSP

Survey of traditional sculptural ideas, tools, techniques, and materials. Group and individual projects dealing with conceptual and formal problems of additive and subtractive methods in wood, metal, stone. Culture: Art.

ART 262 Screen-printing

2-F

This course is an introduction to the basic techniques, processes and history of screen-printing. Screen-printing has commonly been used as a graphic art form for printing posters and signage, but is also an important medium for artists. Screen-printing is valued for its straightforward process, its expedient creation of large editions, the variety of materials it can print onto, and for its integration of hand-drawn, photographic and digital images. It has a history of satire, social/political commentary and protest and often exists in the space between popular culture and high art. Students will work through and generate a body of images associated with a self-directed theme or narrative. Culture: Art. Lab fee.

ART 263 Typography and Letterpress Printing

2-F

Letterpress printing from raised metal type was the primary means of mass communication for over 500 years. While no longer an economically significant segment of the commercial printing market, letterpress continues to live on for specialized commercial applications and, perhaps more importantly, as the heart and soul of a wonderful avocational world known as the private press movement. This course offers an introduction to hand set metal type and wooden type letterpress printing techniques, as well as limited edition printing of text and image on fine papers. Students will research and discuss the innovations of moveable type, wood type and typography in relation to their influence and effect on human civilization, language and the written word, the industrial revolution, and modern economic structure. Studio projects may include design and printing of social and greeting cards, text based broadsides and posters, handmade books and custom stationary suites. Culture:

ART 264 Relief Printing

2-F

This course is an introduction to the basic techniques, processes and history of relief printing. The course will focus primarily in the media of woodcut, a technique that appeared in China in the 9th century and in Europe around 1400. This media was originally used to stamp designs into fabrics, textiles and playing cards, but its importance became cemented by the works of Albrecht Durer and other Northern European Artists. This course will introduce the student to simple black and white woodcut printing and more complex methods of printing with color, reduction printing, multiple blocks, and various methods of registration and printing, both by hand and using the press. Students will work through and generate a body of work associated with a self-directed theme or narrative Culture: Art. Lab fee.

ART 265 Artists Book and Paper

4-S

This course is an introduction to the various hand-crafted methods of papermaking, bookbinding, box and portfolio construction. Students will explore and investigate eastern and western papermaking methods, and use the results to construct various bindings and box constructions. Structures such as pamphlet, concertina, Coptic stitch and perfect bind may be explored. Culture: Art. Lab fee.

ART 266 Sculptural and Moveable Book

2-S

Through a playful exploration of innovative book and box forms, students will construct models and finished pieces that can be used as standalone artist books or combine to create sculptural book forms. Using a variety of materials, unusual openings, and interesting closures students will explore creative book forms and develop their own unique books. Constructions such as tunnel or star book, magic wallet, Jacob's ladder, crown binding, theater, and clamshell and flexagon structures may be examined. Culture: Art. Lab fee.

ART 267 Lithography

2-S

This course is an introduction to the basic techniques, processes, and history of lithography. The course will focus primarily in the media of stone lithography, an important method of producing fine art prints. Through lecture and demonstration, this course will cover basic theory and current processing methods. Procedural discussions will include a range of traditional techniques including crayon, tusche wash, flats, precision deletions, tone rolls and considerations pertinent to multiple color printing. Students will work through and generate a body of work associated with a self-directed theme or narrative. Culture: Art. Lab fee.

ART 271 Ceramics I

4-F&S; 3-May

Basic study of clay as a three-dimensional artistic medium, working with hand-built and wheel-thrown techniques. Introduction to glazing, decorating, and firing processes. Culture: Art. Lab fee.

ART 281 Foundations of Photography

4-F

An introduction to the basic photographic techniques and processes of black and white photography including camera operation, film processing, printing and presentation. Intensive studio assignments will be reinforced through readings, discussions, demonstration, critiques and lectures. The history of photography and conceptual frameworks will be introduced as well. This course has a lab fee. Culture: Art.

ART 282 Experimental Darkroom Processes

4-WSP

Examination of various darkroom image-making and printing techniques, including pinhole, cyanotype, projection, photogram, as well as toning and hand coloring in traditional black and white prints. Lab fee.

ART 284 Introduction to Digital Imaging

4-F&S

This course is an introduction to the tools and concepts of creating and manipulating images with digital technology. It introduces students to compositing, drawing tools, digital photography, and basic filters, and covers the basics to intermediate techniques. The primary software application is Adobe Photoshop. Instruction is project based and relies on class critique. Students also learn to recognize digital equivalents of traditional art styles, techniques, and forms. This course has a lab fee.

ART 285/286/287/288 Fine Arts Seminar

0-1, repeat up to 4 credits-F&S

This seminar course focuses on theory, concepts and methodology of art historical study and their application to the contemporary visual arts by engaging students in discourse surrounding lectures of visiting artists. Investigations of film and writing will be a secondary approach to the course. This course will be required of all majors in the BA, BFA and BFA Applied Design programs, to be repeated for 0-1 hours each time up to 4 credits. The goal of this course is to build community and engage all majors in the dialog of contemporary and relevant studio practice and design industry issues from the moment they walk into the major "first year through senior year. Majors in all art and design programs will have the real world ideas and issues of contemporary arts professionals brought to their doorstep on the HC campus.

ART 291; 391; 491 Independent Study (no fee)

1, 2, 3, or 4-WSP

ART 292; 392; 492 Independent Study (with fee)

1, 2, 3, or 4-WSP

ART 295, 395 Special Topics

1, 2, 3, or 4-WSP

A course designed to provide opportunity for students to explore avenues not covered in other listed courses. Examples include: Figurative Clay Sculpture, Illustration, Portrait Media, Landscape Painting, Landscape Photography, Textile and Fiber Design, and Public Studio. May meet Culture: Art. (check catalog listing: Integrative Studies).

ART 311 Anatomy and Figure Drawing

4-F

Elements, principles, and techniques of artistic anatomy. Emphasis on presentations as they relate to the figure and portrait. Study of skeleton and musculature from casts and live models. Lab fee.

Prerequisite(s):ART 211

ART 314 The Art and History of Film

4-S16

An introduction to the history, craft, theory, and critical content of film; 15 films viewed in class, 20-25 outside of class research work. Culture: Art. Liberal Arts.

ART 321 Painting II

4-F

Intensive study of a single subject which is then extended into a series, to develop a more sophisticated personal visual statement. Examples of subjects include still life, figure, interiors, abstraction. Lab fee.

Prerequisite(s):ART 221

ART 345 Graphic Design II

4-S

Further development of conceptualization and visualization skill within graphic design media, including computer design. Assignments directed towards commercial production. Lab fee.

ART 346 Art Education: Elementary Methods

2-S

This course analyzes learning styles and cognitive theory in relationship to educating youth in visual arts, (grades K-6). Students will discuss and work in a diversity of art materials and methods appropriate to grade level, relating them to integrated lessons addressing multiple student populations. Course work includes lectures, studio experiences, collaborative assignments, and demonstrations.

Prerequisite(s):EDUC 338

ART 347 Art Education: Secondary Methods

2-S

This course examines current assessment and instructional methods of teaching visual art to secondary-level students (grades 7-12). The role of the visual arts in the secondary level curriculum will be examined through lectures, discourse and projects focusing on media appropriate for grade level. Course focuses on current instructional theories in viewing and analyzing artwork, teaching methodologies of studio art, art history and theories of aesthetics discourse.

Prerequisite(s):EDUC 338

ART 351 Sculpture II

4-WSP

Exploration of three-dimensional form/space through individual creative experiences working with various sculptural media. Lab fee.

Prerequisite(s):ART 251

ART 371 Ceramics II

4-S; 3-May

Intermediate study of clay as a three-dimensional artistic medium. Continuing development of form and craftsmanship through individual projects on the wheel and/or hand-built forms. Additional instruction in glaze chemistry and kiln-firing. Lab fee,

Prerequisite(s):ART 271

ART 382 Advanced Topics in Photography

4-S

A continued exploration of photographic techniques and concepts with an emphasis on digital workflow, including digital camera operation, digital output, and strobe lighting. Intensive, conceptually driven studio assignments will be reinforced through readings, discussions, critiques, and lectures. This course has a fee.

Prerequisite(s):ART 281

ART 383 Applied Design Internship

4-WSP

Students will apply classroom knowledge in a real world setting. Internship positions may be available in a range of applied design industries, small businesses, artist studios, galleries, and museums. Placements are developed by working one on one with the supervising faculty member and the individual students to try to match their objectives with an appropriate experience. The internship requires 60-100 hours in the field.

Prerequisite: junior status, coursework at 300 level in internship media.

ART 384 Advanced Digital Imaging

4-WSP

Continued study and development of the creative possibilities of digital image making. Investigation of advanced processes in use of digital cameras and manipulative creative possibilities. Study will be structured by art faculty to meet the needs of the advanced student. Lab fee.

Prerequisite(s):ART 284

ART 385 Junior Studio 1

2-F

This major studio class for Studio Art BA and BFA juniors gives students the opportunity to work with increased independence in a variety of disciplines including drawing, painting, printmaking, photography, sculpture, ceramics and mixed 2D and 3D media. Individual choices of media execution and subject are encouraged through a series of open-ended problems given over both the fall and spring semesters. The problems are designed to invite a wide variety of responses from each student. Group critique is an integral component to the course. The philosophy and structure of the Junior Studio places a high priority on the establishment of an active and reflective relationship between an individual and his/her work. Individual studio space is provided in order to reinforce independent thinking and to help students establish a rapport with the studio life of a fine artist.

ART 386 Junior Studio 2

2-S

This major studio class for Studio Art BA and BFA juniors gives students the opportunity to work with increased independence in a variety of disciplines including drawing, painting, printmaking, photography, sculpture, ceramics and mixed 2D and 3D media. Individual choices of media execution and subject are encouraged through a series of open-ended problems given over both the fall and spring semesters. The problems are designed to invite a wide variety of responses from each student. Group critique is an integral component to the course. The philosophy and structure of the Junior Studio places a high priority on the establishment of an active and reflective relationship between an individual and his/her work. Individual studio space is provided in order to reinforce independent thinking and to help students establish a rapport with the studio life of a fine artist.

ART 447 Graphic Design Internship

4-WSP

Practical experience to include interviews, placement, work experience in situation of mutual benefit to student and publishing house or designer.

ART 485 Senior Studio

2-F

A required seminar-studio course for all studio art majors. Students will examine contemporary theories and practices in art criticism, while developing a body of work for their senior exhibition. Course methods include slide lectures, selected readings, class discussions, and individual and group critiques. The completion of a portfolio and artist statement is also required. Prerequisite: Senior standing with a major in studio art.

ART 486 Senior Seminar and Exhibition

2-S

A seminar-studio that includes the development of a quality body of work for exhibition and formal documentation through written thesis. Course methods include slide lectures, selected readings, class discussions, and individual and group critiques. Required of all senior art majors during the spring semester.

BADM 102 Personal Finance

2-S

Basic understanding of Christian perspectives toward stewardship, including the management of money & credit, insurance, budgeting, investment, and retirement planning. Elective credit only.

BADM 103 Introduction to Business

2-WSP

Business operation, terminology, practices, and career opportunities. A survey course designed to give those interested in the business discipline an overview of what business is all about. A general survey of the entire field of business and management in the free enterprise system.

BADM 191, 291, 391, 491 Independent Study**BADM 202 Accounting and Finance for Non-Financial Managers**

2-F

An introduction to the accounting and finance concepts most often used by managers including understanding and analysis of financial statements, budgeting, working capital management, and financing alternatives.

BADM 212 Principles of Management

4-F&S

Familiarizes students with the knowledge, roles, responsibilities, and skills required of new managers. Special attention is given to managerial decision-making, problem-solving, information, and human resources issues.

BADM 213 Business Law I

4-F13, F15

An introduction to basic legal environment of business, contracts, sales and leases, and negotiable instruments. Liberal Arts.

BADM 214 Business Law II

4-F14, F16

Basic law covering forms of business organization, agency, bankruptcy, government regulations, and professional liability. Liberal Arts.

BADM 218 Marketing Principles

4-F14

Factors in product development, pricing, distribution, and promotion of consumer and business goods and

BADM 220 Advanced Computer Applications

4-WSP

Mastery of programs and processes of selected business computer applications. Develops skills in charting, tracking and setting deadlines using project based software. Students will learn how to organize large volumes of data in a manner that facilitates access, reporting, and summarizing to support business decisions.

BADM 295, 395, 495 Special Topics

1, 2, 3, or 4-WSP

Group study of special topics.

BADM 301 Business Communication

2-F&S

A study of communication theory and principles as applied to business writing and oral communication. Community: Communication. Liberal Arts.

BADM 302 Investment Management

4-S

A study of stocks, bonds, mutual funds, commodities, real estate, investment analysis, and portfolio theory.

Prerequisite: courses listed below or permission.

Prerequisite(s):ACCT 211, ACCT 212

BADM 303 Entrepreneurship

2-F

A study of entrepreneurship identifying an industry niche and the basics of starting and running a small business. Special emphasis given to business plan development.

BADM 307 Statistics I

2-F&S

Descriptive statistics: Measures of central tendency and variability, skewness, frequency distributions, graphing, discrete and continuous probability functions, and sampling. Liberal Arts.

Prerequisite(s):BADM 45

BADM 308 Statistics II

2-F&S

BADM 308 Statistics II (2, F&S) Inferential statistics: Sampling distributions, estimation, hypothesis testing, t-tests, ANOVA, Chi-Squared, correlation, and regression. Prerequisite: BADM/PSY 307 or equivalent by placement test. Quantitative Literacy Competency. Does not meet Creation Requirement. Liberal Arts.

BADM 309 Statistics

3-May

BADM 309 Statistics (3, M) Descriptive and inferential statistics: Measures of central tendency and variability, discrete and continuous probability functions, sampling, estimation, hypothesis testing, correlation, regression, Chi Squared, ANOVA. (Also listed in PSY) Quantitative Literacy Competency: Quantitative Literacy Competency. Does not meet Creation Requirement. Liberal Arts.

Prerequisite(s):BADM 45

BADM 313 International Business

2-S14, S16

An examination of the variations in business management and practices in developed and less developed countries around the world. Prerequisites: courses listed below or permission.

Prerequisite(s):BADM 212, ECON 210

BADM 314 Human Resources Management

4-F

The historical development of human resources management, its context and scope, along with an in-depth coverage of such topics as planning, recruiting, selection, training, supervising, motivation, compensation, benefits, performance appraisals, discipline, and leadership. Prerequisite: BADM 212 or permission.

BADM 317 Management Information Systems

4-S13, S15

Design, maintenance, monitoring of information systems. Includes systems and audit concepts.

Prerequisite(s):ACCT 211, ACCT 212, BADM 45

BADM 319 Marketing Research

2-S

Study of the techniques used in collection and analysis of secondary and primary data and use of that format for decision-making in marketing environment. Student teams work on real business marketing research projects.

Prerequisite(s):BADM 218

BADM 320 Leadership Development

4-S14, S16

A study of the principles of leadership found in biblical leaders, throughout history, and in our own lives. Designed as an interdisciplinary course, specifically to help guide personal understanding both of leadership responsibilities and leadership abilities. It is not intended only for individuals who aspire to positions of leadership or just for those who think they have what are normally considered "leadership" abilities. Intended for anyone seeking to understand how to better be able to influence others for good, regardless of their profession, position, gifts, or calling.

BADM 324 Advertising and Public Relations Principles

4-S14, F14

An overview of the theory behind both related practices including the development, management and implementation of creative communication initiatives and campaigns. The course focuses first on advertising and then on public relations and concentrates on understanding their shared and unique roles in the important area of public communication.

Prerequisite(s):BADM 218, BADM 319

BADM 330 Operations Management

4-S14, S16

Management of processes or systems that create goods or provide services. Includes the basics of forecasting, capacity planning, scheduling, inventory management, total quality management, and supply chain management. Prerequisites: Must have satisfied the Quantitative Literacy Competency: Math as well as the

Prerequisite(s):ACCT 212 , BADM 45

BADM 335 Integrated Marketing Communication Seminar

2-F14, S14

A culminating study of how marketing-communication disciplines coalesce to form powerful branding campaigns in business and not-for-profit organizations. The course examines case studies of various IMC projects and initiatives and analyzes approaches and outcomes.

Prerequisite(s):BADM 324, BADM 218, BADM 319

BADM 340 eCommerce

2-S14, S16

A course designed to give you exposure, understanding, and know-how in the ways the Internet is transforming and facilitating key functions of business. Exploration of the organizations that have succeeded and those that have failed. Understanding the eCommerce strategies companies employ. Covers the technological features that make eCommerce both possible and challenging. Implications in computer science, accounting, marketing, human resources, management, finance, economics, and international business.

BADM 350 Economic Freedom

2-S

A study of the factors which relate to why some economies prosper while others struggle to meet the basic needs of their citizens. Common misconceptions and proposed solutions are explored in an effort to determine how effectively to address poverty around the world. Liberal Arts.

Prerequisite(s):ECON 201

BADM 406 Financial Management

4-F

Financial analysis, budgeting, working capital management, capital budgeting, sources of financing, cost of capital. Prerequisite: courses listed below or permission.

Prerequisite(s): ACCT 211, ACCT 212, ECON 210, BADM 45

BADM 410 Free Enterprise and Value Creation

0-1-F/S

An advanced course for students focused on entrepreneurship or small business management. Students work collaboratively with faculty in researching, planning, and implementing start-up business opportunities on campus. Sustainable businesses are then operated and managed under the umbrella of Houghton Student Enterprises, an agency of the Department of Business and Economics. By application only. The course may be taken multiple semesters for four credit hours toward graduation and counts as internship credit.

BADM 414 Advanced Human Resources Management

1-4-S

Advanced topics in HR, ethics, change management, workforce planning, talent management, competitive strategy, total rewards, and HR performance metrics. The course is designed to help students catch the excitement of (and respect for) the responsibilities associated with managing the people resources of any organization; to provide the opportunity and structure for advanced personal preparation for entry into the field of human resources management; and to simultaneously prepare students for passing the Society of Human Resources Management Assurance of Learning Assessment Exam. Prerequisite: BADM 314 or permission.

BADM 421 Internship in Business (P/F)

0-6-F, S, or Summer

Supervised experience in a business firm combining practical activities with integrating studies.

BADM 431 Security Analysis & Portfolio Management

.5-1-F&S

An advanced investment course in which students that have excelled in business, economics, and/or accounting courses manage a portion of the Houghton College stock portfolio under faculty supervision. By application only. This course may be taken multiple semesters for a maximum of four (4) credit hours toward graduation.

BADM 45 Spreadsheet Competency

The ways in which you may document your competency are: 1. Satisfactory completion of a college-level course (at Houghton College or elsewhere), a major portion of which is in the development of spreadsheet competency. 2. Satisfactory completion of a non-college level training course in the use of such software which requires at least 8 hours of instruction and is evidenced by a certificate or other written documentation, copies of which must be provided to Houghton College. 3. Satisfactory completion of the Houghton College competency examination on the use of Microsoft Excel®. 4. A letter on company letterhead from your employer attesting to your proficiency with Microsoft Excel® or an equivalent spreadsheet application as

BADM 481 Senior Capstone: Business Strategy & Policy

4-S

Integrates social responsibility and ethics with instruction in the strategic planning process. Ethical core values act as guidelines for development of organizational plans. (Seniors only, except by permission.)

Prerequisite(s):BADM 45

BADM 496 Honors in Business

4-S

BIBL 101 Biblical Literature

4-F&S & May

Survey of the types of literature found in the Bible. Considers the origin of the biblical texts and canon; basic issues of interpretation (hermeneutics); and an outline of the history of Israel and of the New Testament church as a backdrop for the message. Literary, historical, and theological aspects of selected texts will be explored. This is a prerequisite for all Bible courses and THEL 209 unless Bible competency is met. Faith Foundation: Bible.

BIBL 191, 192; 291, 292; 391, 392; 491, 492 Independent Study

1, 2, 3, or 4-WSP

Liberal Arts.

BIBL 221 Biblical Interpretation

3-F

A survey of the history of interpreting scripture and various methods used, from ancient to postmodern. Students will practice on various texts and consider issues of application. Liberal Arts.

BIBL 231 Pentateuch

3-S

Analysis of critical and historical background, literary content, and development of the religion of Israel. Relevancy of contents. Liberal Arts.

BIBL 233 Jesus and the Gospels

3-F

Jesus's life and teaching, with emphasis on his eschatology and ethics; the theological distinctives of the Gospel writers; and consideration of some critical issues in interpretation. Focus is mainly on the synoptic gospels. Liberal Arts.

BIBL 251 Bible History and Geography

4-WSP

Study of the history of the Jewish people and surrounding civilizations. Old and New Testament backgrounds. Intensive study of the geography of the Holy Land. No IS credit. Liberal Arts.

BIBL 261 Holy Land Tour

4-WSP

Through visits to cultural, historical, and archaeological sites in Israel, biblical history and geography will be elucidated. Visits will be preceded by lectures and the reading of preparatory materials and followed by lectures and discussions. No IS credit. Liberal Arts.

BIBL 270 Old Testament Historical Books

4-F

Study of the 12 Books of History, including Joshua through Esther. Integrates critical, analytical, and devotional approaches, and combines inductive and lecture methods. Liberal Arts.

BIBL 272 Gospel and Epistles of John

4-WSP

John's gospel and epistles analyzed from a literary and theological perspective, with attention also to historical questions and to the nature of the Johannine community. Liberal Arts.

BIBL 275 Women in the Bible

4-WSP

Examines biblical material that depicts the experiences of women or deals with teaching about women as a class. Explores the main social, political and religious arrangements which affected the lives of women in Scripture. Using various interpretive approaches, it considers the significance of the texts about women in their historical context and for people in the redeemed community in the current era. Liberal Arts.

BIBL 280 Poetic Books

4-WSP

Consideration of the structure and contents of Hebrew poetry and wisdom literature with a comparative study of similar genre of literature in the Near East. Liberal Arts.

BIBL 282 Pauline Epistles

4-S

Brief overview of Paul's life followed by survey of Pauline letters (Romans-Philemon). Literary and historical analyses, occasionally supplemented by other types of study, will be used to understand Paul's message and the theology of the letters. Liberal Arts.

BIBL 295, 395 Special Topics in Bible

2 or 4-WSP

Study of select blocks or groups of Scripture related to a particular topic or theme. Liberal Arts.

BIBL 310 Old Testament Prophets I

3-F

A study of the prophets during the period of the Monarchy as recounted in the historical books and the prophetic books of the 8th-7th centuries B.C., during the period of the Assyrian Empire (Isaiah, Hosea, Amos, Jonah, Micah, Nahum, Zephaniah). Covers historical context, and literacy and theological issues. Liberal Arts.

BIBL 312 Old Testament Prophets II

3-S

Study of the prophets from the end of the 7th through the 5th centuries B.C., during the period of the Babylonian and Persian empires (Jeremiah, Ezekiel, Habakkuk, Obadiah, Joel, Haggai, Zechariah, and Malachi). Covers historical context, and literary and theological issues of the books. Liberal Arts.

BIBL 335 General Epistles

3-S

Historical and exegetical treatment of the books of Hebrews, James, 1 and 2 Peter, and Jude, focusing on key passages, theology, and problems of interpretation and application. Liberal Arts.

BIBL 351 Revelation

4-WSP

An exegetical survey of the Book of Revelation. We will study the literary nature of the book, its historical context, the social conditions of the recipient churches, and the application of Revelation to the modern church.

BIBL 355 Biblical Theology I

2-S15

Examination of the teaching of the Old Testament, developed from the distinctive perspective of Biblical theology. Major themes and methods of inquiry. Liberal Arts.

BIBL 356 Biblical Theology II

2-S15

Examination of the teaching of the New Testament, developed from the distinctive perspective of Biblical theology. Major themes and methods of inquiry. Liberal Arts.

BIBL 360 Science and Scripture

4-WSP

Examination of the historic and current relationship between science and Scripture with a challenge of the "warfare" model that developed in the aftermath of the Darwinian controversy. A careful analysis of both science and Scripture will be made. Attention will be given to four possible ways of relating: Conflict, Contract, Contact, or Confirmation. Liberal Arts. "

BIBL 361 Job

4-WSP

Historical, doctrinal, and cultural study of the book; special attention to the problem of human suffering, the afterlife in the Old Testament, and the concept that success indicates divine favor. Liberal Arts.

BIBL 363 Dead Sea Scrolls

4-WSP

Study of their discovery, their contents, their importance, their contribution to textual criticism and their influence on Judaism and Christianity; attention given to the community from which they came. Liberal Arts.

BIBL 371 Book of Acts

4-WSP

Study of the book of Acts from literary, historical, and theological perspectives. Attention will be given to early church growth and contemporary relevance. Liberal Arts.

BIBL 410 Isaiah

2-WSP

A study of the historical, critical, and contextual issues, with an emphasis on a vital faith to our generation. Liberal Arts.

BIBL 412 Jeremiah

2-WSP

Historical, cultural background, structure and contents of Jeremiah will be studied. Attention given to Jeremiah's influence on his contemporaries and the relevance of his message for our time. Liberal Arts.

BIBL 451 Romans

2-WSP

Detailed exegetical examination of Romans, emphasizing literary and theological analyses which are formed by the context of first-century culture. Explores history of interpretation issues, developments in contemporary Pauline studies that are related to the letter, & application to contemporary life. Prerequisite: one other Bible course, 200-level or higher. Liberal Arts.

BIBL 453 1 Corinthians

2-WSP

An intensive study of the literary structure, the historical setting, and the theology of 1 Corinthians. Prerequisite: one other Bible course, 200-level or higher. Liberal Arts.

BIBL 482 Senior Capstone: Senior Seminar in Bible

2-S

A discussion course focused on individual student projects addressing themes, issues, or problems that bring together biblical material, the Christian tradition, and contemporary concerns. Required of all Bible majors. Liberal Arts.

BIBL 496 Honors in Bible

4-WSP

Liberal Arts.

BIOCHM 480 Capstone Seminar in Biochemistry

1-S

Biochemistry Seminar, the capstone course for the biochemistry major, allows students and professors the occasion to think together about biochemistry: its current topics, history, and issues of science and faith. Liberal Arts. For seniors, except by permission.

BIOL 103 Fundamentals of Biology

3, 4-F&S

Principles of biological structure and function, particularly as they relate to humans. Three lecture, three laboratory hours each week. Lab Science or 2nd Science. Liberal Arts.

BIOL 105 Conservation Biology

4-WSP

Principles of conservation biology including history of conservation, structure of aquatic and terrestrial ecosystems, endangered species and extinction, management, and Christian stewardship. Labs emphasize analysis of aquatic and terrestrial ecosystems. Three lectures, three laboratory hours each week. May not be used toward the biology major or minor. Lab Science or 2nd Science. Liberal Arts.

BIOL 151 General Biology: Organisms to Ecosystems

4-F/S

One of two foundational courses required for preparation for advanced coursework. Includes an introduction to plant and animal biology (including taxonomy), animal behavior, ecology, and principles of evolutionary theory. Three lecture hours, three laboratory hours each week. BIOL 151 and/or BIOL 152 are prerequisites for major level courses above 200. Lab Science or 2nd science. Liberal Arts.

BIOL 152 General Biology: Cellular Biology and Genetics

4-F/S

One of two foundational courses required for preparation for advanced coursework. Includes an introduction to basic biochemistry, cell biology and metabolism, and principles of genetics. Three lecture hours, three laboratory hours each week. BIOL 151 and/or BIOL 152 are prerequisites for major level courses above 200. Lab Science or 2nd science. Liberal Arts.

BIOL 195, 295, 395, 396 Special Topics

1, 2, 3, or 4-F&S

Courses designed to meet the individual needs of advanced students in such areas as medical terminology, virology, disease pathogenesis, animal behavior, and research in biology. Some of the courses include laboratory. Lab Science or 2nd Science. Liberal Arts.

BIOL 205 New Zealand Ecosystems

In this field-based ecology course students not only explore New Zealand's fascinating terrestrial and near-shore marine ecosystems, they also undertake a terrestrial ecosystems research project. In addition to studying New Zealand ecosystems this course is also designed to help students scientifically apprehend a broad understanding of global environmental issues. (IS Creation: Lab Science, Biology major/minor, or general

BIOL 210 Medical Terminology

3-WSP

This course provides the opportunity to learn and recognize word roots, prefixes, and suffixes used in current medical professions. The meaningful combination of words (to describe and understand medical conditions) will be emphasized. Medical terms related to all major body systems will be reviewed.

BIOL 211 The Ecology of Alaska

4-15-May

Study of Alaskan ecology through field experiences to Anchorage, Denali National Park, State Museum at Fairbanks, Tetlin Wildlife Refuge, Valdez, Kenai Fjords National Park, and Homer. Research paper on Alaska ecology and a daily journal required. Est. fee above tuition is \$2,100. Liberal Arts.

Prerequisite(s):BIOL 151

BIOL 215 Local Flora and Vegetation

3-F

Field identification of local ferns, shrubs, trees, and herbaceous flowering plants. Lecture covers broader vegetational ecosystems of North America. Small herbarium required. Two lecture, three laboratory hours each week. May not be used toward the biology major or minor. Lab Science or 2nd Science. Liberal Arts.

BIOL 217 Human Anatomy and Physiology I

4-F

Systematic study of structure and function of the human organism, including microanatomy of organs. General organization of the body, basic tissues, and the integumentary, skeletal, muscular, and nervous systems. Three lecture, three laboratory hours each week. Does not count for major or minor credit except where required for graduate programs and upon permission of the department chair. Lab Science or 2nd Science. Liberal Arts.

BIOL 218 Human Anatomy and Physiology II

4-S

Sequel to BIOL 217. Endocrine, cardiovascular, lymphatic, respiratory, digestive, urinary, reproductive systems; acid-base and fluid-electrolyte balance. Prerequisite: BIOL 217 or permission. Three lecture, three laboratory hours each week. Note: BIOL 217 and 218 are designed to fulfill the certification requirements for the physical education major and admission requirement for some schools of nursing and physical therapy. Does not count for major or minor credit except where required for graduate programs and upon permission of the department chair. Lab Science or 2nd Science. Liberal Arts.

BIOL 232 Epidemiology

2-15-May

This course will study the cause and transmission of human diseases within a population relating not only to the infectious agent but also the genetic makeup of the community and the social, behavioral, economic and cultural factors of the people affected. Lectures will address the history of public health and epidemiology including cost/benefit analyses, public health policy, and the implications of case reporting to the CDC and local public health departments. The basic principles of the science of epidemiology, with an emphasis on identifying patterns and formulating testable hypotheses to the disease outcome, understanding the types of epidemiological studies, clinical and community trials and the essential biostatistics involved in any experimental design will be addressed. Does not count for major or minor credit in biology.

BIOL 242 Microbiology

4-F

Survey of viruses, prokaryotic organisms, and fungi with theoretical and applied approaches to morphology, metabolism, genetics, biotechnology, and host-parasite relations. Three lectures, three laboratory hours each week. Liberal Arts.

BIOL 251 Genetics

4-F

Principles of inheritance in living organisms, including the modern concepts of "gene" action and DNA structure and function. Three lecture, three laboratory hours each week. Prerequisite: BIOL 152 or permission. Lab Science or 2nd Science. Liberal Arts.

BIOL 301 Field Botany

4-F

Introduction to taxonomy, systematics, and ecology of vascular plants. Course includes field trips throughout western New York and northwestern Pennsylvania; plant identification and classification; develop extensive herbarium. Two lecture, six laboratory hours each week. Liberal Arts.

Prerequisite(s):BIOL 151

BIOL 315 Marine Biology

4-WSP

Comprehensive study of marine ecosystems including the foundations of physical and chemical oceanography as they impact the ecology of marine organisms. Overview of structure, physiology, and ecology of marine life from phytoplankton to whales. Labs cover the representative marine divisions (plants) and phyla (animals) and may include a field trip to the northeast Atlantic coast. Liberal Arts.

Prerequisite(s):BIOL 151

BIOL 322 General Ecology

4-S

Study of the interrelationships among living organisms, their physical and biological environment, and human impacts. Laboratory introduction to ecological techniques and field studies of local and state ecosystems. Three lecture, three laboratory hours each week. Liberal Arts.

Prerequisite(s):BIOL 151

BIOL 336 Animal Behavior

4-F or S

Provides an introduction to the biological study of animal behavior. Lecture topics will focus primarily on why animals behave as they do and, to a lesser degree, how they get the job done. Topics to be covered include: genes and behavior, learning, organization of behavior, communication, mating systems, parental investment and cooperation. Three lecture, three laboratory hours each week. Liberal Arts.

Prerequisite(s):BIOL 151

BIOL 365 Immunology

4-S15

Theoretical and clinical approaches to study of innate and adaptive immune systems: antigen recognition, immune response, immune system, and its pathologies. Three lectures, three lab hours each week. Liberal Arts.

Prerequisite(s):BIOL 152

BIOL 370 Molecular and Cell Biology

4-F

The course provides an introduction to the biochemistry of cells, transport across membranes, cell-to-cell signaling, organelle function, and protein targeting, with an emphasis on methods in molecular and cell biology. Three lecture hours and one three-hour lab per week. Labs will focus on molecular techniques such as cloning, PCR, generation and purification of recombinant proteins, and blotting techniques (DNA, RNA, and Protein).

Prerequisite(s):BIOL 251

BIOL 380 Pathogenic Microbes

4-S14

Diseases caused by common bacteria, fungi, parasites and viruses in mammals and plants. Topics include classification, immune response, pathogenesis, virulence mechanisms, host-vector-pathogen paradigm, diagnosis, and control of infectious microorganisms. Discussion of current literature to further develop understanding and significance of pathogenic microbes and their diseases. Three hours lecture, two hours discussion/seminar. Liberal Arts.

Prerequisite(s):BIOL 152, BIOL 242

BIOL 382 Embryology and Endocrinology

4-F

Study of morphogenesis and biochemical processes involved in development, with emphasis on vertebrates. Three lecture, three laboratory hours each week. Liberal Arts.

Prerequisite(s):BIOL 251

BIOL 391, 392; 491, 492 Independent Study

1, 2, 3, or 4-WSP

Research under the supervision of a biology department faculty member. Maximum total five credits. Liberal

BIOL 393 Summer Collaborative Research in Biology

1, 2, 3, or 4-Summer

Summer research in collaboration with a biology faculty member focusing on current areas of research including immunology, pathophysiology, molecular genetics, animal behavior, and forest/freshwater ecosystem analysis. Students work intensively with a faculty member over the course of four weeks during the summer. Prerequisite: BIOL 151, 152. Permission of instructor required. Liberal Arts.

BIOL 394 Collaborative Research in Biology

4-F, S, May

Research in collaboration with a faculty member focusing on current research in areas of immunology, molecular genetics, animal behavior, and forest/water ecosystem analysis. Students work in small teams reviewing literature, designing projects, performing experiments, collecting and analyzing data, and writing up their work in manuscript form. Prerequisite: BIOL 151, 152. Permission of instructor required. Liberal Arts.

BIOL 475 Environmental Stewardship Seminar

1-WSP

The course focuses on examining environmental issues and problems in light of the Christian faith with the goal of developing a personal stewardship ethic. Beginning with local environmental problems, and then moving to global issues and ethics. Outside speakers from the larger community, including representatives from the NYDEC, The Nature Conservancy, and local politicians. Liberal Arts.

BIOL 482 Senior Capstone: Senior Seminar

2-S

Discussions on history of biological science, ethical problems in biology and health related issues, origins and biotechnology and society as well as environmental issues are covered. Open only to majors. Liberal Arts.

BIOL 496 Honors in Biology

4-S

Liberal Arts.

CHEM 113 Elements of Biochemistry

4-WSP

Forms and functions of chemicals in life. Fundamentals of inorganic, organic, and biological chemistry with contemporary applications. Also designed for pre-nursing students. Three lecture, three laboratory hours per week. Liberal Arts.

CHEM 121 Impact: Science on Society

3-S

Interrelationships between science, modern society, and Christianity. Nature and limitations of science. Political and social decisions with a scientific component. In-depth analysis of several areas where science plays a critical role in contemporary life. 2nd Science. Liberal Arts.

CHEM 151 General Chemistry I

4-F

Theories and principles of modern chemistry: stoichiometry, atomic theory and structure, bonding, properties of matter, descriptive chemistry of some important elements. Laboratory devoted to synthesis, analysis, and experiments based upon principles developed in lecture. Three lecture, three laboratory hours per week. Lab Science or 2nd Science. Liberal Arts.

CHEM 152 General Chemistry II

4-S

Continuation of CHEM 151; description and control of chemical reactions (equilibrium, thermodynamics, kinetics, electrochemistry, coordination compounds, nuclear, and organic chemistry). Laboratory designed to illustrate principles developed in lecture. Three lecture, three laboratory hours per week. Liberal Arts.

CHEM 187 Introduction to Nutrition

3-F & S

Digestion, metabolism, nutrition of normal individuals. Essentials of adequate diets and food sources of nutrients; nutritional comparison of food in relation to normal and modified diets. Does not count for major or minor credit. If taken with CHEM 188, meets lab science and Health & Wellness: Point 1. Without CHEM 188, 2nd Science and Health & Wellness: Point 1. Liberal Arts.

CHEM 188 Introduction to Nutrition Laboratory

1-F & S

This laboratory is designed to parallel the structure of CHEM 187, demonstrating at a hands-on level the components, concepts, and stewardship of contemporary nutrition. Three lab hours per week. With CHEM 187, Lab Science.

CHEM 221 Contemporary Organic Chemistry

4-WSP

For pre-nursing, pre-medical technology, BA biology, and general science majors. Fundamentals of organic chemistry; emphasis on structure, reactions, properties of organic molecules. Three lecture, three laboratory hours per week. Prerequisite: CHEM 151 or CHEM 113. Liberal Arts.

CHEM 241 Organic Chemistry I

4-F

Modern organic chemistry: relationships between organic molecular structure and chemical reactivity; mechanisms of molecular transformations; synthesis and spectroscopy. Three lecture, four laboratory hours per week. Liberal Arts.

Prerequisite(s):CHEM 152

CHEM 242 Organic Chemistry II

4-S

Modern organic chemistry: relationships between organic molecular structure and chemical reactivity; mechanisms of molecular transformations; synthesis and spectroscopy. Three lecture, four laboratory hours per week. Liberal Arts.

Prerequisite(s):CHEM 241

CHEM 277 Analytical Chemistry

4-F

Principles of gravimetric, volumetric, and electroanalytical methods of analysis. Acid base, precipitation, complexometric, redox titrimetry. Quantitative methods based on absorption of radiation. Statistical treatment of data. Laboratory: analysis of unknown samples. Three lecture, four laboratory hours per week. Liberal Arts.

Prerequisite(s):CHEM 152

CHEM 278 Chemical Instrumentation in Research

4-S

Instrumental methods of analysis. Principles and application of various types of spectroscopy (including UV-VIS, IR, NMR), atomic absorption and emission, mass spectrometry, thermal and electrochemical methods of analysis, etc. Three lecture, four laboratory hours per week. Liberal Arts.

Prerequisite(s):CHEM 277

CHEM 286 Special Topics in Chemistry

2-F

An introduction to areas of chemistry not treated in other courses. Topics have included the following: medicinal, forensic, nutritional, environmental, and clinical chemistries. Consult the department for the topic offered in any given year. Liberal Arts.

Prerequisite(s):CHEM 241

CHEM 291, 292, 391, 392; 491, 492 Research in Chemistry

1, 2, 3, or 4-WSP

Liberal Arts.

CHEM 332 Biochemistry

3-S

Structures, functions, and metabolic relationships of representative compounds involved in life processes; brief introduction to enzymology, inborn errors, regulation of metabolism, nutritional implications, clinical applications. Prerequisite: CHEM 221 or CHEM 241. Liberal Arts.

CHEM 334 Bioanalytical Laboratory

1-S

The practice of analytical chemistry as applied to biochemical systems. Qualitative and quantitative laboratory experience in gravimetric, volumetric, potentiometric, and spectrometric techniques. Must be taken with CHEM 332. Liberal Arts.

CHEM 343 Advanced Organic Chemistry

4-WSP

Theoretical and physical organic chemistry. Interrelationship of structure and reactivity; dynamics of organic reactions; methods of synthesis; current topics of special importance to organic chemistry and introduction to current original publications in organic chemistry. Liberal Arts.

Prerequisite(s):CHEM 242

CHEM 352 Physical Principles of Chemistry

3-WSP

For students whose major interests lie in medicine, biology or secondary education. A one semester, less mathematically oriented, introduction to physical chemistry offering a core of concepts related to life-processes. Three lecture hours per week. Liberal Arts.

Prerequisite(s):CHEM 242

CHEM 361 Physical Chemistry I

4-F

Theoretical aspects of principles of chemistry: derivation and application, with emphasis on thermodynamics, kinetics, and molecular structure. Practical applications in laboratory. Three lecture, four laboratory hours per week. Co-requisite: MATH 241 or MATH 225. Liberal Arts.

Prerequisite(s):PHYS 151, PHYS 152, CHEM 152

CHEM 362 Physical Chemistry II

4-S

Theoretical aspects of principles of chemistry: derivation and application, with emphasis on thermodynamics, kinetics, and molecular structure. Practical applications in laboratory. Three lecture, four laboratory hours per week. Co-requisite: MATH 241 or MATH 225. Liberal Arts.

Prerequisite(s):CHEM 152, PHYS 151, PHYS 152

CHEM 393 Summer Collaborative Research in Chemistry

1, 2, 3, or 4-May/Summer

Summer program of doing research in chemistry with a member of the chemistry faculty. Students work individually or together to explore the literature, perform analyses, design and perform syntheses, and report their results orally and in writing. Liberal Arts.

Prerequisite(s):CHEM 152

CHEM 453 Advanced Inorganic Chemistry

4-F

Theories of atomic and molecular structure, bonding; emphasis on organometallic chemistry; descriptive chemistry of the elements; current topics of special importance. Liberal Arts.

Prerequisite(s):CHEM 152

CHEM 482 Senior Capstone: Chemistry Seminar

1-S

Journal reports and discussion of recent developments in chemistry and issues of science and faith. For seniors, except by permission. Liberal Arts.

CHEM 496 Honors in Chemistry

4-S

A special individual research project, completed in a chemistry-major's senior year, resulting in a publishable undergraduate thesis. Liberal Arts.

CHMN 251 Internship

2-F/S

A field experience in a church or a church-related organization during the student's second year or during Mayterm.

CHMN 252 Internship

2-S/May

A field experience in a church or a church-related organization during the student's second year or during Mayterm.

CLLS 102 College Study Methods (P/U)

1-F&S

Improves study habits: reading textbooks, taking notes, improving memory, preparing for and taking exams, writing research papers, time management. For any student who wishes to work to full potential.

CLLS 202 Transitions 102 Group Leadership (P/U)

0-2-F

Faculty and staff-supervised training and experience leading groups of first-year students in discussion sessions and other coursework as part of the Transitions 102 course. For sophomores, juniors and seniors, chosen by application in the prior year.

CLLS 203 PSL: RA Training and Experience (P/U)

0-1-F&S

Special training course in spring and August, with credit awarded after in-service training for the fall. Students will be introduced to key topics related to Residence Life and Housing and receive training specific to the Resident Assistant position at Houghton College.

COLP 401-402 Collaborative Performance

F&S-1, 2, 3, or 4

Preparation and presentation of joint performances in a variety of keyboard, instrumental, and vocal

COMM 101 Presentational Speaking

2-F&S

Studies in the basic concepts of effective communication. Emphases on oral presentation skills, organization of information, use of evidence, and audience analysis. Deliver demonstrative, informational, and persuasive speeches. Community: Communication. Liberal Arts.

COMM 205 Introduction to Communication Theory

4-S

This course provides a foundation for subsequent communication courses by introducing the major theories that help to explain human communication behavior. The course encourages students to see theorizing both as a formal, systematic approach to learning and as an informal activity in which we all engage. Through practical application, the course emphasizes the understanding, evaluation, and use of communication theories in daily life. Community: Communication. Liberal Arts.

COMM 207 Introduction to Pro Tools

3-F

Introduction to Pro Tools sound & recording software. Foundational skills necessary to record, edit, and mix at basic level using a Digidesign Pro Tools system. Focus: fundamental tools and techniques through demonstrations, real-world examples, and frequent hands-on assignments. Successful completion prepares students to undertake Pro Tools 101 Digidesign Certification exam. This course has a lab fee. By permission of

COMM 208 Pro Tools Production I

3-S

Continued study of Pro Tools: expanding range of tools and techniques. Focus: expanded hardware and software configurations, developing versatile tools for manipulating and editing both audio and MIDI data, and implementing various techniques to facilitate larger and more sophisticated mixing scenarios, again through real-world examples and frequent hands-on assignments that will enhance your capabilities in all aspects of Pro Tools production. Successful completion prepares student to undertake Pro Tools 110 DigiDesign Certification exam. This course has a lab fee.

Prerequisite(s): COMM 207

COMM 214 Introduction to Mass Media

4-F

Overview of the mass communication process and its application to mass media. Considers history, technological development, social implications, business functions, and legal aspects of mass media. Community: Communication. Liberal Arts.

COMM 215 Interpersonal Communication

4-F

Principles, application of interpersonal skills in the context of friendships and families. Includes personal and relational awareness, person perception, verbal and nonverbal communication, relational development, and gender communication. Community: Communication. Liberal Arts.

COMM 216 Organizational Communication

3-S

Development of communication skills applicable within organizations: understanding communication channels, interviewing strategies, task-oriented groups, business and sales presentations, conducting effective meetings, conflict management. Community: Communication. Liberal Arts.

COMM 218 Marketing Principles

4-F14

Factors in product development, pricing, distribution, and promotion of consumer and business goods and

COMM 224 Time, Motion, and Communication

4-F

This course is an introduction to the foundational concepts of communications design in which time is an important formal element. Studio work will explore ways that images and design change over time in ways that enhance narrative or interactive communication: time and motion explored as formal properties; history of time-based communication and interactivity; extensive studio work developing key concepts in time and communication. This course has a lab fee. Liberal Arts.

COMM 228 Digital Video I

4-F

This course is an introduction to the movie-making process using digital tools. Students will learn the basics of managing digital workflow and software interface, using a digital video camera, editing in Final Cut Pro, and saving final output to DVD. Also covered are basic principles of storytelling, location production, integration of titles and audio, critique and production skills, and output and archiving. This course has a lab fee.

COMM 232 Introduction to Web Communication

4-WSP

This course is an introduction to the design, hosting, and maintenance of Web pages. Foundational concepts of composition and design, use of color, multimedia, accessibility, and good user interface design are covered in a project-based studio. Suitable for any major and discipline, with an emphasis on projects useful to communication majors (online Web gallery, portfolio, video, blogging, etc.) This course has a lab fee. Liberal Arts.

COMM 244 Oral Performance of Literature

4-F14

Emphasis on the selection and analysis of literary texts in preparation for presentation in both traditional oral interpretation and Readers Theater formats. Development of vocal and physical skills for reading texts in a variety of literary styles, including prose, poetry, scripture, drama, and children's lit. Community: Communication. Liberal Arts.

COMM 284 Introduction to Digital Imaging

4-F&S

This course is an introduction to the tools and concepts of creating and manipulating images with digital technology. It introduces students to compositing, drawing tools, digital photography, and basic filters, and covers the basics to intermediate techniques. The primary software application is Adobe Photoshop. Instruction is project based and relies on class critique. Students also learn to recognize digital equivalents of traditional art styles, techniques, and forms. This course has a lab fee.

COMM 291, 292, 391, 392, 491, 492 Independent Study

1, 2, 3, or 4-WSP

Liberal Arts.

COMM 295, 395 Special Topics in Communication: Lecture-Based or Studio-Based

2-4-F&S

Opportunity for study of issues and problems not covered elsewhere in the curriculum. Liberal Arts.

COMM 314 New Media and Society

4-S16

This course explores the ways computing and digital communication tools, along with the Internet, are transforming culture and society. Includes a history of the Internet and personal computing and examines critical writing from a range of perspectives on the potentially positive and negative aspects of technology-

COMM 316 Advanced Presentational Speaking

2-F15

The preparation and delivery of various kinds of problem-solving presentations including problem analysis, policy justification, policy rejection, and hostile audience. Emphasis on content, structure, and delivery.

Prerequisite: junior or senior status. Liberal Arts.

COMM 319 American Public Address

4-F15

This course studies the public discourse of political speeches and popular culture from the colonial era to the present. A careful analysis of speech texts and the historical contexts in which they were delivered will help students become more careful consumers of public messages, will build critical skills, will improve understanding of key issues in American history and how those issues were debated, and will increase appreciation for the importance of rhetoric in a democratic society. Community: Communication. Liberal Arts.

COMM 324 Advertising and Public Relations Principles

4-F

An overview of the theory behind both related practices including the development, management and implementation of creative communication initiatives and campaigns. The course focuses first on advertising and then on public relations and concentrates on understanding their shared and unique roles in the important area of public communication.

Prerequisite(s): COMM 218, BADM 319

COMM 328 Digital Video II

4-S16

This course is a continuation of DV I, intended to expand upon the skills and techniques introduced in DV I, and adding more advanced editing techniques to the student's skill set. Techniques such as multi-camera production, compositing, green screen, and videoblogging are introduced. Students are encouraged to prepare film festival submissions. The course presents an outline of cinematic communication history. This course has a

COMM 330 Conflict Management

3-S

An introduction to conflict management that balances coverage of major theories with practice in communication skills and conflict intervention techniques (e.g., assertiveness training, mediation, negotiation). Focus on experiential learning with heavy emphasis on written analysis that includes analytical journaling and analysis of scientific journal articles.

COMM 335 Integrated Marketing Communication Seminar

2-S

A culminating study of how marketing-communication disciplines coalesce to form powerful branding campaigns in business and not-for-profit organizations. The course examines case studies of various IMC projects and initiatives and analyzes approaches and outcomes.

Prerequisite(s): COMM 324, COMM 218, BADM 319

COMM 384 Digital Imaging II

4-S

Advanced techniques in compositing, painting, graphics, and content expression using 2D digital computer software such as Adobe Photoshop. Creative studio lab work will focus on individual and collaborative digital imaging projects, for print or electronic distribution. Coursework conceptualizes the image as a powerful artistic and communication mode of discourse. Presentations, demonstrations, and intensive group critiques offer a chance for students wishing to pursue more advanced skills in using the computer as an expressive imaging tool. This course has a lab fee.

Prerequisite(s): COMM 284

COMM 389, 489 Communication Internship

1, 2, 3 or 4-F, S, Summer

Experience in an applied communication field. Course tailored to individual student's needs and interests.

COMM 410 Media Arts: Advanced Projects

4-S

This is a single-project course tailored to the individual interests, vision and production decisions of the student. The course is adapted for individual mentoring and one-to-one faculty-student interaction. Project-based instruction explores the advanced needs of a student while honing digital production and editing skills. Features of the course include single short production, extensive group critiques, field trips and guest lectures, study of advanced motion graphics, and discussion of career applications. This course has a lab fee.

COMM 417 Senior Capstone: Seminar in Public Communication

4-S

Analysis of specific public communication situations, such as social reform movements, political discourse, campaign rhetoric, war rhetoric, the documentary, and the role of media in shaping discourse in contemporary society. Liberal Arts.

COMM 496 Honors in Communication

4-S

Liberal Arts.

COMP 101-102, 201-202, 301-302, 401-402 Composition

1, 2, 3, or 4-F&S

Original composition in various forms, genres, and styles.

CONC 401-402 Advanced Conducting, Choral

1, 2, 3, or 4-F&S

Preparation of material for a major choral ensemble and actual experience directing the ensemble.

Prerequisites: MUS 229, 329, participation in ensemble, permission of ensemble director.

CONI 401-402 Advanced Conducting, Instrumental

1, 2, 3, or 4-F&S

Preparation of material for a major instrumental ensemble and actual experience directing the ensemble.

Prerequisites: MUS 229, 430, participation in ensemble, and permission of ensemble director.

CRFM 191, 192; 291, 292; 391, 392; 491, 492 Independent Study

1, 2, 3, or 4-WSP

CRFM 227 Sports Ministry: The Integration of Faith and Sport

4-S15

Students will develop an understanding of the sports culture and will learn how the gospel can be effectively communicated within this context. They will consider sociological factors, historic developments and the Biblical text in order to build a theological foundation for the practice of sports ministry. Church and parachurch organizations will be examined as well as evangelism and discipleship methodologies. Students will practice communication skills within sports ministry settings.

CRFM 231 Foundations of Educational Ministry

2-F13

Historical, philosophical, and theological developments of religious and Christian education in relation to the practice of ministry.

CRFM 275 Methods & Administration of Sports Ministry

2-S16

Students will evaluate sports ministry strategies within local church, parachurch, mission and educational settings. They will review and develop curriculum and programs for use within these settings. Students will develop communication skills for a sports audience and will examine evangelism and discipleship methods.

CRFM 325 Bible Study and Teaching Methods

3-S

Survey of methods of Bible study and approaches to teaching/learning. Emphasizes lesson design, planning and presentation, small group leadership, curricula.

CRFM 331 Christian Formation of Children

2-F13

To gain an understanding of the process of faith formation during childhood and to examine effective methods for fostering this formation both in and around the faith community.

CRFM 332 Christian Formation of Youth

2-S14

An examination of the theory and practice behind guiding the spiritual lives of adolescents with particular emphasis upon the evangelistic and nurturing (discipling) tasks. Time-tested and innovative practices of adolescent spirituality will be covered. An overview of adolescent culture will be given, aimed at enabling spiritual directors of youth to understand some of the unique elements of enabling the faith journeys of young

CRFM 333 Christian Formation of Adults

2-F13

To gain an understanding of the process of adult faith formation in the various adult phases of life (young, middle, older) and to examine effective methods for fostering this formation, both in and around the faith

CRFM 341 Theological Explorations in Youth Cultures and Ministry I

2-F14

A theological investigation into the religious and spiritual life of American youth, with special reference to the contexts of family, peer relationships, school and church. This course asks questions of the order: "What does the religious and spiritual landscape of American young people in early 21st century look like? How do young people relate to organized religion? How is the current interest in spirituality related to the search for meaning in their lives? What connections do young people make between religion or spirituality and social concerns? How can this religious and spiritual interest and impetus be theologically engaged from a Christian perspective, with a view to effective youth ministry?"

CRFM 342 Theological Explorations in Youth Cultures and Ministry II

2-F14

Helps students develop the skills to critically engage, from a Christian theological perspective, popular culture "texts" (e.g., films, television shows, music) and trends (e.g., networked publics, body modification), with a view to effective youth ministry.

CRFM 350 Foundations of Youth Ministry

2-S14

Eclectic, descriptive, and critical examination of theory and practice of contemporary youth evangelism and discipleship in selected church and parachurch models, including denominational programs, Campus Life, and Young Life.

CSCI 115 Perspectives on Computing

4-WSP

An overview of how computers process, transmit, and store information. Designed for the non-major and includes many applications and issues found in contemporary culture. For example, privacy issues related to databases maintained by insurance companies or protection of intellectual property in light of increasingly popular file sharing applications. There are no prerequisites. This does not count toward a major or minor in computer science. Liberal Arts.

CSCI 211 Programming I

4-F

This course covers the fundamentals of object-oriented programming utilizing the Java programming language. This first programming course provides students with basic Java programming concepts, data types, operators, flow control statements, objects, classes, methods, arrays, strings, applications, applets, and graphics user interfaces. 2nd Science. Liberal Arts.

CSCI 214 Discrete Mathematics

2-F15

Topics include: sets, functions, relations (incl. Partial order), methods of propositional logic, introduction to predicate logic, counting, recurrence relations, asymptotic analysis, proof (incl. Induction), introduction to probability, and graphs. Liberal Arts.

CSCI 218 Programming II

4-S

This course extends the concepts learned in Programming I. It covers some advanced features of Java including advanced graphical user interfaces, exceptions, threads, graphics, multimedia, input/output, and networking. Liberal Arts.

Prerequisite(s):CSCI 211

CSCI 226 Computer Architecture

4-S14

Structure and internal organization of digital computers. Machine language and assembly language, representation of numbers, CPU organization, subroutines and linkage. Prerequisite: course listed below or equivalent proficiency. Liberal Arts.

Prerequisite(s):CSCI 211

CSCI 236 Data Structures and Algorithms

4-F14

This course covers the fundamental data structures of computer science and accompanying algorithms. Linked Lists, Stacks, Queues, Binary Trees, Priority Queues, Heaps and other ADTs will be included. Classical sorting and searching algorithms will be learned and implemented. Liberal Arts.

Prerequisite(s):CSCI 218

CSCI 245 Software Engineering

4-WSP

This course covers both a theoretical and a practical foundation in software engineering. In the theoretical part, it covers principles and methods of software engineering, including requirements, specification, design, implementation, testing, validation, operation, and maintenance. In the practical part, it covers the development of software products from an industry perspective, including generation of appropriate

Prerequisite(s):CSCI 218

CSCI 295, 296; 395, 396; 495 Special Topics in Computer Science

1, 2, 3, or 4-WSP

Previous topics include: bioinformatics, computer security, neural networks, machine learning, C#, and NET. Liberal Arts.

CSCI 326 Operating Systems

4-WSP

A study of computer architecture at the register level. Management of the processor, memory, peripheral devices, and information. Interrelationships of architecture and operating systems. Performance evaluation. Exposure to system manager responsibilities in UNIX and Windows. Prerequisite: courses listed below or

Prerequisite(s):CSCI 226, CSCI 236

CSCI 328 Foundations of Computing

4-WSP

This course covers the introduction to the classical and contemporary theory of computation including regular, context-free, and computable (recursive) languages with finite state machines, pushdown automata, and Turing machines. It also covers the historical reasons and the need that gave rise to many different programming languages and discusses the features of the most successful and more influential of them. The similarities and the differences among procedural, functional, object-oriented logic as well as parallel programming languages will also be covered. Liberal Arts.

CSCI 336 Programming III

4-F13

This course covers J2EE (Java Enterprise Edition). The topics will include how to develop n-tier applications, design various application architectures based on the J2EE platform, and enterprise technologies - JDBC, RMI, JNDI, EJB, JMS, and JINI. Liberal Arts.

Prerequisite(s):CSCI 236

CSCI 340 Databases

4-F14

Introduction to relational databases. Fundamentals of database and query design. Database management topics include security, integrity, and concurrency techniques. Use of relational database software (including SQL) for application projects. Topics include decision-based and object-based databases. Exposure to database manager responsibilities. Prerequisite: course listed below or permission. Liberal Arts.

Prerequisite(s):CSCI 218

CSCI 391, 392; 491, 492 Independent Study

1, 2, 3, or 4-F, S

Liberal Arts.

CSCI 393 Summer Collaborative Research in Computer Science

1, 2, 3, or 4-Summer

Students work individually or in small teams reviewing literature, solving challenging problems in biology using machine learning and data mining algorithms and techniques from computer science, and describing their work in written form. The course focuses on interdisciplinary research which covers mathematics, statistics, computer science, and computational biology. May be repeated for credit. Prerequisite: Permission from instructor. Liberal Arts.

CSCI 420 Networking

4-S15

An introduction to the basics of data communication and networking. Topics include the OSI model, physical processes used for digital transmission, standardization, local area networks, the network protocols, and network applications. Exposure to network manager responsibilities in UNIX and Windows NT. Prerequisite: course listed below or permission. Liberal Arts.

Prerequisite(s):CSCI 326

CSCI 480 Senior Capstone: Computer Science Seminar

4-S

For seniors, except by permission. Required of all computer science majors. Liberal Arts.

CSCI 496 Honors in Computer Science

Liberal Arts.

ECON 191, 192; 291, 292; 391, 392; 491,492 Independent Study

1, 2, 3, or 4-WSP

Liberal Arts.

Prerequisite(s):ECON 201

ECON 201 Introduction to Economics

2-F&S

Economic behavior, economic method, and economic systems. Reviews basic concepts of scarcity, opportunity cost, economic efficiency. Explains role of institutions in economic outcomes. Introduces models of production possibilities, demand and supply, and more briefly aggregate demand and supply, and the circular flow.

Discusses faith and morality as compared to economic thinking. Introduces ideas about globalization, political economy, economic systems, and financial markets. Prerequisite to all other economics courses. Plus ECON 211-214 or 237 satisfies Community: Economics. Liberal Arts.

ECON 210 Principles of Microeconomics

2-F

Scarcity, economic method, demand and supply, elasticity, consumer and producer theory, models of product market structure, economic institutions, and selected topics on faith integration, economics & ethics, economic systems & perspectives, public economics. Plus ECON 201 meets one Community. Liberal Arts.

ECON 211 Principles of Macroeconomics

2-S

Circular flow of income and expenditure in a market economy with government, financial, and foreign sectors. Economic method, demand and supply, national income accounting, inflation, unemployment, business cycles, theories of aggregate price and output determination, fiscal and monetary policy, and the government budget. Plus ECON 201 meets one Community. Liberal Arts.

Prerequisite(s):ECON 201

ECON 212 International Economics

2-WSP

International trade, international finance, and government policies regarding trade and finance. Why nations trade, protectionist policies, multinationals, financing trade, exchange-rate determination, and international trade and finance in developing nations. Plus ECON 201 satisfies Community: Economics. Liberal Arts.

Prerequisite(s):ECON 201

ECON 213 American Economic History I: Colonial Era to 1865

2-WSP

History of U.S. economy to the Civil War, with special emphasis on the European background, early settlements, British rule, costs and benefits of the Revolutionary War, economic aspects of the Constitution, the early national period, Northern industrialization versus Southern agriculture for export, slavery, and costs and benefits of the Civil War. Covers economic progress and crises in finance, trade, industry, agriculture, labor markets, land use, law and government. Plus ECON 201 satisfies Community: Economics. Liberal Arts.

Prerequisite(s):ECON 201

ECON 214 American Economic History II: 1865 to Present

2-WSP

History of U.S. economy after the Civil War, to the present, with special emphasis on industrialization, World Wars I and II, and the Great Depression. Covers economic progress and crises in finance, trade, industry, agriculture, labor markets, and government. Plus ECON 201 satisfies Community: Liberal Arts.

Prerequisite(s):ECON 201

ECON 237 Comparative Economic Systems

2-F13, F15

Examination of alternative economic systems; compare U.S. economic system with other economies along the capitalist-socialist spectrum; describes the institutional bases for such comparisons. Plus ECON 201 satisfies Community: Economics. Liberal Arts.

Prerequisite(s):ECON 201

ECON 295, 395, 495 Special Topics

Group study of selected topics. Liberal Arts.

ECON 301 Money, Banking & Financial Markets

3-S

Role of money and financial institutions in a market economy, interest rates, bond markets, money market, yield curve, risk premium, economic principles of bank management, financial regulation, Federal Reserve System and its influence on banking system, money supply, and economy. Liberal Arts.

Prerequisite(s):ECON 210 , ECON 211

ECON 310 Intermediate Microeconomics

1-WSP

Short introduction to primary models of consumer and producer behavior, especially indifference analysis of budget optimization and isocost-isoquant analysis of production. Prerequisites: ECON 210 and 211. Liberal Arts.

Prerequisite(s):ECON 210 , ECON 211

ECON 311 Intermediate Macroeconomics

1-WSP

Short introduction to primary models of macroeconomics, especially the IS-LM model, the consumption function, and the investment function. Prerequisites: ECON 210 and 211. Liberal Arts.

Prerequisite(s):ECON 210 , ECON 211

ECON 315 Economics of Organization and Strategy

2-S15

Theories of the firm with applications to management and business ethics; the firm in competition and in the macro and international environments, with emphasis on adapting to changing environments. Economics of business strategy explores industrial organization and competition, with emphasis on sources of profitability, applications of game theory, and adapting organization to setting. Economics of organization compares forms, purposes, and effectiveness, optimal allocation of decision-making, effective application of incentives. Liberal Arts.

Prerequisite(s):ECON 211 , ECON 210

ECON 316 Managerial Economics

2-WSP

Theories of the firm especially regarding optimal decision making and decision making under risk with applications to insurance and investment; consumer behavior and forecasting demand; basics of efficient production management, and optimization, personnel economics, and price determination. Liberal Arts.

Prerequisite(s):ECON 210 , ECON 211

ECON 322 Economic Research Seminar

1, 2, or 3-WSP

Research and writing course for students who wish to pursue further work in economics. Students must have had at least two hours of a previous economics course to take one hour of Seminar, at least 4 hours of previous courses to take 2 hours of seminar, and at least 6 previous hours to take 3 hours of seminar. Topics for study must be approved by instructor. Liberal Arts.

Prerequisite(s):ECON 201

ECON 350 Economic Freedom

2-S

A study of the factors that relate to why some economies prosper while others struggle to meet the basic needs of their citizens. Common misconceptions and proposed solutions are explored in an effort to determine how effectively to address poverty around the world. Liberal Arts.

Prerequisite(s):ECON 201

EDUC 114 Mathematical Concepts and Reasoning

4-F&S

Builds a conceptual framework for understanding number, numeracy, number operations, probability, statistics, geometry, and measurement. Focus on problem-solving and the use of manipulative materials for developing conceptual understanding. Attention to development of mathematical concepts and reasoning.

EDUC 191, 192; 291, 292; 391, 392; 491, 492 Independent Study

2 or 4-WSP

EDUC 202 Topics in Professionalism

0-F&S

This pass or fail course is designed to enable all education majors to meet New York state regulations for training in special topics (Identification and Reporting of Suspected Child Abuse or Maltreatment; School Violence Prevention and Intervention; Prevention of Child Abduction; Prevention of Alcohol, Tobacco and other Drug Abuse; Safety Education; Instruction in Fire and Arson Prevention; and the Dignity for All Students Act). In addition it will provide information about certification, state testing requirements, and student teaching. Required before practicum experiences.

EDUC 203 Workshop: Child Abuse + ID

0-F&S

All HCTEP majors and applicants for certification must complete two hours of coursework or training in the identification and reporting of suspected child abuse and maltreatment, as required by Sections 3003(4) and 3004 of the Education Law.

EDUC 204 Workshop: School Violence

0-F&S

All HCTEP majors and applicants for certification must complete two hours of coursework or training in school violence prevention and intervention, as required by section 3004 of the Education Law.

EDUC 205 Workshop: Harrassment, Bullying and Discrimination Prevention & Intervention & the Dignity for All

0-F/S

All HCTEP majors and applicants for certification must complete 6 hours of course work or training in topics pertaining to harassment, bullying and discrimination prevention and intervention, and the Dignity for All Students Act as required by section 14(5) of Chapter 102 of the NYS education law.

EDUC 217 Education and American Culture

4-F&S

A survey of the philosophical and historical antecedents of American education and their relationships to current educational debates. The influence of culture and language on experience and on education are considered. Students develop an initial statement of their personal philosophy of education. Liberal Arts.

EDUC 219 Educational Psychology

4-F&S

The individual in the teaching/learning process. Focus on learning models and theories, cognition, individual differences, motivation, and instructional psychology. Particular attention is given to intellectual and social development in formal and informal learning situations. Liberal Arts.

EDUC 221 Children's Literature

4-F&S

Offers a survey of various genre in literature for pre-school and elementary grade children with an emphasis upon developing criteria for selection and evaluation. Particular attention is given to international and multicultural children's literature, to literary criticism as it pertains to children's literature, and to developmental and philosophical perspectives. Liberal Arts.

EDUC 223 Adolescent Literature

4-F

Students will read and analyze a variety of literature of interest to adolescents with an eye toward understanding adolescents and their place in society, developing criteria for evaluating adolescent literature, and exploring current trends in this literature. Students investigate critical theories about the function and purpose of literature for adolescents, including developmental, aesthetic, and cultural considerations. Attention will be given to international and multicultural literature, as well as to literary criticism of young adult

EDUC 230, 330, 430 Special Topics

2 or 4-WSP

Depending on interest, demand and faculty availability, courses will be offered to allow students to consider issues and aspects of educational theory and practice which are not fully explored elsewhere in the curriculum.

EDUC 235 Educating Exceptional Learners

4-F&S

Examines the historical and legal contexts for providing services to diverse learners with a range of special educational considerations. Explores the scope of exceptionalities and the processes used to identify and address special needs. Emphasis is placed on the collaborative role of the general educator in meeting the needs of exceptional learners in inclusive settings. Liberal Arts.

EDUC 240 Teaching in Urban America

2-May

Provides exposure to and an understanding of race, class and culture issues in contemporary urban schools. The student will develop an awareness of family and community as partners with schools in the education enterprise. Students will participate in a 10 day field experience in an urban school, working as teachers' assistants. Recommended sophomore year.

Prerequisite(s): EDUC 202

EDUC 305 Middle School Content-Area Learning Strategies

3-15-May

Examines a variety of research-validated content-area learning strategies, self-advocacy strategies and process strategies for use in inclusive classrooms in the middle grades (grades 5-9). Students will research, read, review, critique and develop a variety of instructional strategies for use with middle-grade learners (with and without disabilities) across multiple content areas. According to NYS teacher certification requirements (2/2010), ICE graduates who are granted an Initial Teaching Certificate from New York State and who complete this course with a C or better may be able to extend their teaching certificate to include the middle grades through Individual Evaluation for Additional Classroom Teaching Certificate pathway (<http://eservices.nysed.gov/teach/certhelp/CertRequirementHelp.do>).

EDUC 306 Early Childhood Education: Language and Literacy Development

3-16-May

Focuses on research-based principles and practices for language and literacy development of children birth to 2nd grade. Emphasis is given to understanding the processes by which young children learn spoken and written language and to designing appropriate learning experiences to support the development of language and literacy in young children. According to NYS teacher certification requirements (2/2010), ICE graduates who are granted an Initial Teaching Certificate from New York State and who complete this course with a C or better may be able to extend their teaching certificate to include the early childhood grades through Individual Evaluation for Additional Classroom Teaching Certificate pathway (<http://eservices.nysed.gov/teach/certhelp/>)

EDUC 313 Language, Literacy and Curriculum Integration for Diverse Learners

4-S

Considers the role of language in secondary curriculum from philosophical, technical, cultural, and political perspectives. Models of integrating literacy across the curriculum for diverse secondary learners are explored and applied.

EDUC 314 Inclusive Childhood Practicum I

1-F

Two half-days per week in either a primary (grades one-three) or intermediate (grades four-six) classroom. Focus on observing children and the learning environment, assisting the classroom teacher with daily routines, and supporting the learning of individual children. Taken concurrently with EDUC 320 and EDUC 328.

Prerequisite(s): EDUC 202, EDUC 219, EDUC 235

EDUC 315 Inclusive Childhood Practicum II

1-S

Continuation of EDUC 314. Two half-days per week in same classroom assigned for EDUC 314. Focus on increasing responsibility for planning and teaching of lessons under the guidance of the classroom teacher. Taken concurrently with EDUC 325, EDUC 329, EDUC 341, and EDUC 342.

EDUC 320 Curriculum and Assessment in Inclusive Classrooms

4-F

Provides an exploration of the development of elementary curriculum and assessment and the creation of learning environments that support diverse learners in inclusive settings. Includes an examination of lesson planning and unit planning. Taken concurrently with EDUC 314 and EDUC 328.

Prerequisite(s): EDUC 235, EDUC 219

EDUC 321 Classroom Dynamics: Models & Research

2-WSP

Examines and critiques several proven models of classroom management through research and direct observation. It will provide the participant with ideas to consider and tools to draw upon when managing group learning situations with learners from all ages and grade levels. Participants will develop their own personal philosophy of management and discipline based on this new foundation.

EDUC 325 Issues in Inclusive Education I

2-S

This course addresses issues in inclusive education, including the ongoing assessment of children with special needs; assistive technology; and collaboration among parents, teachers, administrators, and students. Special attention will be given to the evaluation of various teaching methodologies and the development of appropriate academic and behavioral interventions for students with disabilities. Taken concurrently with EDUC 315, EDUC 329, EDUC 341 and EDUC 342.

EDUC 326 TESOL Practicum I: Elementary

1-F

Two half days or one full day per week in an elementary TESOL placement. Focus on observing children and the learning environment, assisting the classroom teacher with daily routines, and supporting the learning of individual children. Taken concurrently with EDUC 320, EDUC 328, and EDUC/LING 371.

Prerequisite(s): EDUC 202, EDUC 219, EDUC 235

EDUC 327 TESOL Practicum II: Secondary

1-S

Two half days or one full day per week in a secondary TESOL placement. Focus on observing children and the learning environment, assisting the classroom teacher with daily routines, and supporting the learning of individual children. Taken concurrently with EDUC 329 and EDUC 372.

EDUC 328 Foundations of Language and Literacy for Diverse Learners I

4-F

Introduces the nature of children's language and literacy learning and the assessment and instruction of the English language arts in inclusive classrooms. Considers the means of developing a learning environment that nurtures the language learning of all children. Students articulate a philosophy of teaching the English language arts and begin to develop their program portfolio. Prerequisites: Course listed below or permission of instructor. Taken concurrently with EDUC 314 and EDUC 320.

Prerequisite(s): EDUC 219, EDUC 235

EDUC 329 Foundations of Language and Literacy for Diverse Learners II

4-S

Examines authentic assessment and instruction of the English language arts in inclusive classrooms with particular focus on children with special needs, English language learners, and students from diverse cultures. Students focus on educational research and the continued development of their program portfolio. Taken concurrently with EDUC 315, EDUC 325, EDUC 341, and EDUC 342.

Prerequisite(s): EDUC 328

EDUC 331 Secondary Teaching: General Methods

2-S

This course addresses a range of responsive pedagogical approaches and delivery methods designed to meet the learning needs of adolescent learners across the curriculum. Adolescence Education majors from all content areas will take this course concurrently with the methods course in their subject-area (EDUC 3XX). This course should be taken the year prior to student teaching.

Prerequisite(s): EDUC 338

EDUC 338 Inclusive Curriculum & Assessment in Secondary Classrooms

4-F

Examination and analysis of responsive, inclusive strategies and dynamics of teaching and learning in middle and high school classrooms. Attention given to technology integration in classroom settings and to implementation of developmentally appropriate instruction for the diverse range of learners present in

Prerequisite(s): EDUC 219

EDUC 33X Secondary Teaching: Content Methods and Practicum

2-S

Adolescence Education majors from all content areas will take the methods course in their subject-area (see list below) concurrently with EDUC 331: Secondary Teaching: General Methods. These courses should be taken the year prior to student teaching. Each course will address instructional methods, New York State Learning and Common Core Standards, and curricular issues particular to the given content. Practicum placement with a secondary teacher certified in the target content area is part of the course. EDUC 332 English Methods; EDUC 333 Foreign Language Methods; EDUC 334 Math Methods; EDUC 335 Science Methods; EDUC 336 Social Studies

EDUC 341 Social Studies in Inclusive Classrooms

2-S

Exploration of methods and materials for addressing the needs of diverse students in pursuing various aspects of national and state curriculum standards in social studies. The focus will be on helping students develop a knowledge base and skills in areas such as: history, geography, economics, civics, cultural studies, and global education. Taken concurrently with EDUC 315, EDUC 325, EDUC 329, and EDUC 342.

EDUC 342 Mathematics and Science in Inclusive Classrooms

4-S

Exploration of methods and materials pertaining to teaching elementary mathematics and science in inclusive settings. National curriculum standards are examined as well as New York State Learning Standards in each subject. Taken concurrently with EDUC 315, EDUC 325, EDUC 329 and EDUC 341.

EDUC 346 Art Education: Elementary Methods

2-S

This course analyzes learning styles and cognitive theory in relationship to educating youth in visual arts, (grades K-6). Students will discuss and work in a diversity of art materials and methods appropriate to grade level, relating them to integrated lessons addressing multiple student populations. Course work includes lectures, studio experiences, collaborative assignments, and demonstrations. Prerequisite: EDUC 338.

EDUC 347 Art Education: Secondary Methods

2-S

This course examines current assessment and instructional methods of teaching visual art to secondary-level students (grades 7-12). The role of the visual arts in the secondary level curriculum will be examined through lectures, discourse and projects focusing on media appropriate for grade level. Course focuses on current instructional theories in viewing and analyzing artwork, teaching methodologies of studio art, art history and theories of aesthetics discourse. Prerequisite: EDUC 338 or permission of instructor.

EDUC 355 Theory and Practice of Bilingual Education

3-WSP

Designed as an introduction to bilingual education and bilingualism. Study of the sociolinguistic and psycholinguistic issues that surround bilingualism and bilingual education. An attempt is made to balance the psychological and the sociological, the macro education issues and the micro classroom issues, the linguistic and the sociopolitical, and to balance discussion at the individual and societal levels. Recommended

EDUC 371 TESOL Methods: ELA

2-F

Examines the language, reading and writing development of English language learners. It explores assessment and instructional methods of teaching English Language Arts to speakers of languages other than English. It also explores ways of creating a classroom learning environment that encourages English language and literacy development for all learners. Prerequisites: Courses listed below or permission of instructor.

Prerequisite(s): LING 220 , LING 350, LING 351

EDUC 372 TESOL Methods: Content Areas

2-F

Explores assessment and instructional methods designed to make content areas (math, science, social studies) concepts comprehensible while promoting English language development.

Prerequisite(s): EDUC 371

EDUC 403 Student Teaching in Art Education: Elementary

6-F&S

Six-to-seven week placement in an art setting at the elementary level (grades PK-6). The experience will include a minimum of two weeks with full teaching responsibilities. Taken concurrently with EDUC 203, EDUC 204, EDUC 404 and EDUC 412. (See department policy on "Employment and Activities While Student Teaching.")

EDUC 404 Student Teaching in Art Education: Secondary

6-F&S

Six-to-seven week placement in an art setting at the secondary level (grades 7-12). The experience will include a minimum of two weeks with full teaching responsibilities. Taken concurrently with EDUC 203, EDUC 204, EDUC 403 and EDUC 412. (See department policy on "Employment and Activities While Student Teaching.")

EDUC 408 Inclusive Childhood Student Teaching

10-F&S

Twelve weeks in a supervised student teaching experience in inclusive classroom setting(s), either primary (grades one-three) or intermediate (grades four-six) depending on the elementary practicum placement. Designed for students who have completed all education course work except EDUC 425 and EDUC 485. Students must also register for EDUC 203, 204, 425 & 485. (See department policy on "Employment and Activities While Student Teaching.")

EDUC 409 Secondary Student Teaching I

6-F&S

Six-to-seven week placement in either grades 7-9 or grades 10-12 in the appropriate content area. The experience will include a minimum of two weeks with full teaching load responsibilities. Prerequisite: EDUC 33x (Secondary Teaching Methods), EDUC 338, and EDUC 313. Taken concurrently with EDUC 203, 204, 410 & 411. (See policy below on "Employment and Activities while Student Teaching.")

EDUC 410 Secondary Student Teaching II

6-F&S

Six-to-seven week placement in either grades 7-9 or grades 10-12 in the appropriate content area. The experience will include a minimum of two weeks with full teaching load responsibilities. Prerequisite: EDUC 33x (Secondary Teaching Methods), EDUC 338, and EDUC 313. Taken concurrently with EDUC 203, EDUC 204, EDUC 409 & EDUC 411. (See policy below on "Employment and Activities while Student Teaching.")

EDUC 411 Senior Capstone: Seminar in Secondary Teaching

2-F&S

Serves as a capstone course to the major, exploring issues related to the teaching professions through reflective thinking and research-based learning. Taken concurrently with EDUC 409 & 410.

EDUC 412 Senior Capstone: Seminar in Art Education

2-F&S

Serves as a capstone course to the major, exploring issues related to the teaching professions through reflective thinking and research-based learning. Taken concurrently with EDUC 403 & 404.

EDUC 422 TESOL Student Teaching: elementary level

6-F&S

Six-to-seven week placement in TESOL setting at the elementary level (grades K-6). The experience will include a minimum of two weeks with full teaching responsibilities. Taken concurrently with EDUC 203, EDUC 204, EDUC 423 and EDUC 424. (See department policy on "Employment and Activities While Student Teaching.")

EDUC 423 TESOL Student Teaching: secondary level

6-F&S

Six-to-seven week placement in TESOL setting at the secondary level (grades 7-12). The experience will include a minimum of two weeks with full teaching responsibilities. Taken concurrently with EDUC 203, EDUC 204, EDUC 422 and EDUC 424. (See department policy on "Employment and Activities While Student Teaching.")

EDUC 424 Senior Capstone: Seminar in TESOL

2-F&S

Serves as a capstone course to the major, exploring issues related to the teaching professions through reflective thinking and research-based learning. Taken concurrently with EDUC 422 & 423.

EDUC 425 Issues in Inclusive Education II

2-F&S

This course addresses issues in inclusive education, giving explicit attention to legislative initiatives and revisions impacting the education of students with special needs, as well as the professional roles and responsibilities of special educators. The thorough development of an individualized education program is a key course component. Taken concurrently with EDUC 203, EDUC 204, EDUC 408 and EDUC 485.

EDUC 485 Senior Capstone: Seminar on Reflective Teaching

2-F&S

Provides an opportunity for inclusive childhood student teachers to summarize and reflect on their knowledge and understanding of the liberal arts and the nature of teaching and learning in inclusive classrooms and to apply their understanding of the intellectual tools of their major disciplines through the final revision and development of their program portfolio. Taken concurrently with EDUC 408 and EDUC 425.

EDUC 496 Honors in Education

2 or 4-WSP

ENGL 111 College Literary Studies

3-S

The principles of literary interpretation. Topical thematic study of texts, the reading process, and critical perspectives to develop analytical thinking and appreciation. Taught at participating high schools to their selected, qualified students. Culture: Literature. Liberal Arts.

ENGL 202 Literary Voices

3, 4-F&S

The principles of literary interpretation. Topical or thematic study of texts, the reading process, and critical perspectives to develop analytical thinking and appreciation. Culture: Literature. Liberal Arts.

ENGL 207 Introduction to Literary Studies

3-S

An introduction to the principles and practices of English studies. Emphasis on writing critical papers on the four major genres. Literary interpretation using appropriate MLA documentation. Development of critical vocabulary, and literary terms. Required of English majors. Competency: Writing. Liberal Arts.

ENGL 213 English Literature I

3-F15

Surveys major works and literary movements in England from Beowulf through Neoclassicism. Provides biographical, historical, and ideological information to enhance understanding. Culture: Literature. Liberal Arts.

ENGL 214 English Literature II

3-F15

Surveys major works and literary movements of the Romantic, Victorian, modern, and postmodern periods in their biographical, historical, and ideological contexts. Culture: Literature. Liberal Arts.

ENGL 217 American Literature I

3-F14

Surveys the developing American literary tradition from the age of European exploration and encounters with Native American cultures through the Civil War. Emphasis on Puritan thought, deism, Romanticism, and Transcendentalism. Close reading of primary texts. Culture: Literature. Liberal Arts.

ENGL 218 American Literature II

3-F14

Survey of significant figures in American literature from the Civil War to the present. Emphasis on the emergence of realism, the development of naturalism, the rise of literary modernism, and new directions in the late 20th and 21st centuries. Culture: Literature. Liberal Arts.

ENGL 291, 292; 391, 392; 491, 492 Independent Study

1, 2, 3, or 4-WSP

Liberal Arts.

ENGL 307 Environmental Literature

This course introduces students to the landscape of environmental literature, both past and present, providing a solid grounding in the field. Through key readings, discussions, and reflections of various environmental literature forms including short story, essay, and poetry, students consider what makes literature “environmental” and why this field of literature was and is so important in shaping an earthy faith, and worldview. (ENGL credit for major/minor or general elective).

ENGL 308 Australian Literature

3-WSP

Studies the diversity of Australian literary traditions and texts in light of Australian critical approaches such as post-colonial theory and other cultural study models. Culture: Literature. Liberal Arts.

ENGL 311 Literature in the Age of Shakespeare

4-S16

Poetry and prose from More to Milton (excluding Shakespeare). Attention given to political, historical, religious background. Emphases on Spenser, Milton, and the 17th century devotional poets. Liberal Arts.

ENGL 312 Literature in the Age of Enlightenment

4-WSP

Significant European and English writers from 1660-1800. Attention to the ideas of Enlightenment and to neoclassical forms, with emphasis on satire, comedy, manners, literary criticism, contes philosophique, and the rise of the novel. Liberal Arts.

ENGL 313 Romanticism in Literature and Culture

4-WSP

Study of Romanticism as a European phenomenon, with emphasis on the impact of Romantic ideas and literary trends on British writers working between 1780 and 1848. Liberal Arts.

ENGL 314 Victorian Literature and Culture

4-F14

Literature of the Victorian period in the context of selected intellectual, artistic and popular culture movements. Liberal Arts.

ENGL 315 Modern and Contemporary Drama

4-WSP

Emphasis on American and English drama from around 1900 to the present. Beckett and Oâ€™Neill as progenitors of significant theatrical trends such as realism, expressionism, and the absurd. Liberal Arts.

ENGL 316 Literary Criticism

2-S

Theoretical and practical study of the principles of criticism. Introduction to contemporary critical schools. Major research using MLA. Required of English major. Liberal Arts.

ENGL 319 Modern and Contemporary American Poetry

4-S16

American poetry from 1900 to present. Emphases on trends and selected major figures such as Eliot, Frost, Pound, Stevens, Williams, Oliver, Gluck, and Olds. Liberal Arts.

ENGL 320 Modern and Contemporary British Poetry

4-F14

British poetry from 1900 to present. Emphases on trends and selected major figures such as Hopkins, Hardy, Yeats, Auden, Thomas, Larkin, Heaney, and Duffy. Liberal Arts.

ENGL 321 Modern and Contemporary English Fiction

4-S16

An exploration of major trends in 20th and 21st century English fiction. Includes selected examples of the modern, postmodern, and post-colonial novel in the British Isles, from Joyce and Woolf to Byatt, Winterson, and Rushdie. Liberal Arts.

ENGL 322 American Fiction

4-S15

History and development of the American novel, with emphases on such writers as Melville, James, Dreiser, Cather, Fitzgerald, Hemingway, Faulkner, Baldwin, Pynchon, Kingston, and McCarthy. Liberal Arts.

ENGL 334 The American Short Story

4-WSP

Development of the American short story from its beginnings with Irving, Poe, and Hawthorne to contemporary and postmodern practitioners such as Braverman, Gurganus, and Dubus. Liberal Arts.

ENGL 335 Major Author

4-F&S

In depth study of one author. Comprehensive reading of primary works. May also include examination of influences. Authors that may be studied include Jane Austen, Emily Dickinson, John Milton, and William Shakespeare. Required of English majors. Liberal Arts.

ENGL 350 Major Author: Shakespeare

4-F15

Survey of significant examples of Shakespeare's histories, comedies, tragedies, and some poetry. Biographical, historical and critical background; emphasis on close reading of texts. Strongly recommended for Adolescence Education/English majors. Liberal Arts.

ENGL 353 Internship for English Majors

4-WSP

Opportunities for off-campus experiences investigating a career option in fields other than teaching, such as advertising, government service, industrial publications, and library science. Liberal Arts.

ENGL 355 Modern English Grammar in Historical Perspective

4-WSP

Focuses on traditional English grammar and the historical principles on which grammatical analysis is based. Emphasis placed on understanding the language system of grammar, its historical origins and development, grammatical theory, and the conventions of American English usage. Strongly recommended for Adolescence Education/English majors. Liberal Arts.

ENGL 361 Contemporary World Literature

4-WSP

Selections from world masterpieces of the 20th century, especially novels since World War II from the non-English-speaking world. Liberal Arts.

ENGL 390 Special Topics in Literature

1, 2, 3, or 4-WSP

Study of issues, literary figures, or problems not covered elsewhere in the curriculum. Such topics may include literature by women, postcolonial literature, African American literature, immigrant literature, and British or American Contemporary literature. Liberal Arts.

ENGL 418 Senior Capstone: Seminar

4-F&S

Intensive study of literary topics culminating in a substantial seminar project. Class presentations. Library research. Engagement with critical methodologies. May also be taken as the 318 level. Courses may include: Major Author Courses (such as Jane Austen, Emily Dickinson, John Milton, William Shakespeare) or 300-level period and Special Topics courses such as Literature in the Age of Enlightenment, Modern and Contemporary British Poetry. By permission of instructor only. Liberal Arts.

ENGL 496 Honors in English

4-S

Liberal Arts.

EQST 113 Horsemanship I

1-F&S

Fundamental skills in hunt seat, dressage, and/or western riding, according to student background or interest. Riding portion of grade based on mastery of basic skills. One riding lab per week; written final. Health and

EQST 114 Horsemanship II

1-F&S

Building upon fundamental skills and expanding knowledge of hunt seat, dressage, and/or western riding, according to the student's background or interest. Riding portion of grade based on mastery of basic skills. One riding lab per week; written final. Prerequisite: EQST 113 or permission. Health and Wellness: Point 4.

EQST 223 Foundations of Equestrian Studies (Activity Lab)

4-S

Principles of horse management, stable design, equestrian competition, and recreation management.

EQST 224 CHA Riding Instructor Certification

3-May

Certified Horsemanship Association (CHA) curriculum: CHA clinic and horsemanship teaching certification. Teaching and equitation skills in ring and trail riding of hunt and stock seat. Horsemanship teaching practicum. Prerequisite: courses listed below or permission.

Prerequisite(s): EQST 223 , EQST 114

EQST 230 Basic Western Riding

2-F

Philosophy and techniques of western riding needed for ranch work, and basic western competitions.

Prerequisite: EQST 113 or permission.

EQST 235 CHA Instructor of Riders with Disabilities Certification

1-WSP

Certified Horsemanship Association (CHA) curriculum: CHA clinic and instructor of riders with disabilities

(cognitive and physical) certification. Prerequisite: EQST 224 or permission.

EQST 240 Teaching Riding in Bolivia

2-WSP

Combines teaching with intercultural experience in a missions outreach setting. Students will teach riding in Club Hipico in and around the city of Santa Cruz and at Monte Blanco Christian Camp and Conference Center.

Knowledge of Spanish is helpful but not essential. Prerequisite: EQST 224 or permission.

EQST 276 Dressage

2-F&S

Philosophical and physiological building blocks of dressage, leading to mastery of Training Level and introduction to First Level dressage; lays the necessary foundation for effective horsemanship in all higher level disciplines. Prerequisite: EQST 114 or permission. Health and Wellness: Point 4.

EQST 295, 395, 495 Special Topics

2 or 3-WSP

Courses may be taught relative to special topics in horsemanship, such as riding for the disabled, CHA trail guide certification, CHA instructor of riders with disabilities certification, western reining, etc.

EQST 323 Eventing

2-F

History and philosophy of the sport of eventing, current rules, and riding techniques (three-phase horse trials; includes fundamentals of dressage, cross-country galloping and jumping, stadium jumping techniques).

Prerequisites: courses listed below or permission. Health and Wellness: Point 4.

EQST 324 Principles of Training

2-F

Foundations of training the young horse and re-training the problem horse. Students work with the actual training of a young horse, utilizing classical principles, philosophy, methodology. Prerequisite: EQST 276 or

EQST 325 Horsemanship: Jumping I

2-F

Fundamentals of basic jumping position and introduction to correctly navigating a course. Philosophy of the hunt seat system of riding. Prerequisite: EQST 114 or permission. Health and Wellness: Point 4.

EQST 326 Horsemanship: Jumping II

2-S

Building skills, refining techniques, and expanding technical knowledge learned in EQST 325. Prerequisite: EQST 325 or permission.

EQST 327 Mini-Prix Jumping Equitation

2-S

Riding jumper seat equitation and showing hunters and jumpers; learning principles, practices, and philosophy of course design for the various classes and competitions for jumpers. Prerequisite: EQST 326 or permission.

EQST 328 Horse Show Judging

2-F13

Lectures and field trips incorporating judging assignments for learners; understanding the duties of the judge; using good judging to educate riders. Prerequisites: courses listed below or permission.

Prerequisite(s):EQST 276, EQST 325

EQST 334 Competition Dressage

2-S

Builds on foundation laid in EQST 276 and guides students into the next two levels towards FEI. Prerequisite: EQST 276 or permission.

EQST 337 Adventure Trails Riding and Guiding

2-F

Students build skills and knowledge researching potential trail riding sites, training horses for trail riding, and guiding clients on trail rides. Involves multiple off campus field trips. Prerequisite: EQST 114 or permission.

EQST 421 Musical Freestyle Dressage

2-S

Combines a solid foundation in classical dressage with the artistry of choreography and music. Prerequisite: EQST 334 or permission.

ESCI 101 Physical Geology

3-F15

Study of materials, structure, and dynamics of the Earth's crust. Identification of rocks and minerals; topographic map studies. Three lecture, three laboratory hours each week. If taken with ESCI 103 meets Lab Science requirement. Without ESCI 103, 2nd Science. Liberal Arts.

ESCI 103 Physical Geology Lab

1-F15

Laboratory to accompany ESCI 101 Physical Geology. Three lab hours per week. With ESCI 101, Lab Science.

ESCI 212 Environmental Earth Science

4-WSP

Relationship between humans and Earth systems in the atmosphere, hydrosphere, lithosphere. Environmental problem solving. The laboratory will focus on applications of GIS and GPS to environmental and earth science problems. Three lecture, three laboratory hours each week. Lab Science or 2nd Science. Liberal Arts.

ESCI 224 Atmospheric Science

4-WSP

Comparative study of planetary atmospheres. Phenomena of Earth's atmosphere and aerospace, weather, meteorology, and climatology. Three lecture, three laboratory hours each week. Liberal Arts.

ESCI 230 Hydrology

4-WSP

A study of the properties and circulation of water on the surface of the land, underground and in the atmosphere. Topics to be covered include fluid mechanics, groundwater, wastewater, and environmental concerns. An engineering perspective will be used. Three lecture, three laboratory hours each week. Liberal Arts.

ESCI 291, 292, 391, 392, 491, 492 Independent Study

Liberal Arts.

ESCI 295, 395, 495 Special Topics in Earth Science

Liberal Arts.

FREN 101 French Level 1

4-F

Development of the skills of comprehending, speaking, reading, and writing French. Liberal Arts.

FREN 102 French Level 2

4-S

Development of the skills of comprehending, speaking, reading, and writing French. Competency: Foreign Language. Liberal Arts.

FREN 204 or 315 Paris: Capital of French Culture

4-May

3-week course in Paris. Daily lecture-visits and excursions to places of cultural interest in Paris and its environs. Language instruction and a long and short paper required for integrative studies or minor credit. Cost: check with professor. Liberal Arts.

FREN 205 Intermediate French

4-F

Bridges the gap between beginning-level and advanced courses. Attention is paid to vocabulary, reading strategies, writing skills, and conversation. Grammar review and enhancement are part of the course. Liberal

FREN 301 Conversation and Grammar I

4-S

Intensive practice in speaking French. Oral discussions and reports based on contemporary readings. Prerequisite: FREN 205 or equivalent. Students who have completed FREN 305 and above must obtain permission of instructor. Liberal Arts.

FREN 305 French Phonetics

4-WSP

Designed for the English-speaking student, this course stresses corrective measures for difficulties arising from Anglo-American pronunciation habits. Prerequisite: FREN 301 or equivalent or permission of instructor. Liberal

FREN 321 Masterpieces of French Literature

4-WSP

Masterpieces of French literature from its beginnings through the 20th century. Readings from anthologies and/or selected completed works from the period. Prerequisite: FREN 301 or permission of instructor. Liberal

FREN 350 Advanced French Grammar and Composition

4-WSP

A study of advanced grammar concepts and style. Extensive practice in writing in different styles and time frames. Prerequisite: FREN 301 or equivalent. Liberal Arts.

FREN 391, 392; 491, 492 Independent Study

1, 2, 3, or 4-WSP

Liberal Arts.

FREN 395 Special Topics

4-F14

Study of literary and cultural topics not covered elsewhere in the curriculum. Prerequisite: FREN 301 or equivalent or permission of instructor. Liberal Arts.

FREN 421 French Civilization

4-WSP

Historical backgrounds and major contributions of France to contemporary culture. Prerequisite: FREN 301 or equivalent or permission of instructor. Liberal Arts.

FREN 461 Advanced French Conversation: Current Events

4-WSP

Intensive oral practice with a focus on current issues in Francophone countries. Prerequisite: FREN 301 or permission of instructor. Liberal Arts.

GERM 101 German Level 1

4-F

Introduces and develops the skills of comprehending, speaking, reading and writing German, with particular attention to pronunciation and intonation. Also introduces students to the cultures and histories of German-speaking countries. Liberal Arts.

GERM 102 German Level 2

4-S

Introduces and develops the skills of comprehending, speaking, reading and writing German, with particular attention to pronunciation and intonation. Also introduces students to the cultures and histories of German-speaking countries. Competency: Foreign Language. Liberal Arts.

GREK 101 Beginning Greek Level 1

3-F15

Elements of the Koine Greek language. Stress on facility in reading selections from New Testament and Hellenistic literature. Cultural backgrounds in Greek civilization. This course or its equivalent is a prerequisite for all other Greek courses. Liberal Arts.

GREK 102 Beginning Greek Level 2

3-S16

Elements of the Koine Greek language. Stress on facility in reading selections from New Testament and Hellenistic literature. Cultural backgrounds in Greek civilization. Foreign Language Competency.

Prerequisite(s): GREK 101

GREK 191, 192; 291, 292; 391, 392; 491, 492 Independent Study

1, 2, 3, or 4-WSP

Liberal Arts.

GREK 201 Greek Readings

2-WSP

Readings in New Testament Greek. May include selections from the Septuagint or other Hellenistic Greek texts. Liberal Arts.

Prerequisite(s): GREK 101, GREK 102

HEBR 101 Beginning Hebrew Level 1

3-S14

Elements of Biblical Hebrew. Reading from Old Testament. Liberal Arts.

HEBR 102 Beginning Hebrew Level 2

3-S15

Elements of Biblical Hebrew. Reading from Old Testament. Foreign Language Competency. Liberal Arts.

Prerequisite(s):HEBR 101

HEBR 191, 192; 291, 292; 391, 392; 491, 492 Independent Study

1, 2, 3, or 4-WSP

Liberal Arts.

HEBR 201 Hebrew Readings

2-WSP

Readings in Biblical Hebrew. Liberal Arts.

Prerequisite(s):HEBR 101, HEBR 102

HIST 101 Western Civilization I: Ancient Civilization to 1650

2-F&S

Survey of western civilization from its cultural roots in ancient Near Eastern, Greek and Roman civilizations through its development during the Middle Ages, Renaissance, Reformation, and age of discovery and expansion. Attention to analyzing primary source materials. Culture: History. Liberal Arts.

HIST 102 Western Civilization II: 1650 to the Present

2-F&S

Survey of western civilization from the rise of science, the Enlightenment, Industrial Revolution, nationalism and other ideologies, two World Wars, the Cold War and beyond. Attention to analyzing primary source materials. Culture: History. Liberal Arts.

HIST 103 Western Civilization: Science Honors I

2-F

Survey of western civilization from its cultural roots in ancient Near Eastern, Greek, and Roman civilizations, including the rise of early science, the Middle Ages, Renaissance, Reformation, and the age of discovery and expansion. Attention to analyzing primary source materials. Reserved for first-year Science Honors students. Culture: History. Liberal Arts.

HIST 104 Western Civilization: Science Honors II

2-S

Survey of western civilization from the rise of modern science, the Enlightenment, Industrial Revolution, nationalism and other ideologies, two World Wars, the Cold War and beyond. Attention to analyzing primary source materials. Reserved for first-year Science Honors students. Culture: History. Liberal Arts.

HIST 105 Western Civilization: Ancient Civilization to the Present

3, 4-F&S

Survey of Western civilization from its cultural roots in ancient Near eastern, Greek and Roman civilizations through its development during the Middle Ages, Renaissance, reformation, the age of discovery and expansion, the rise of science, the Enlightenment, Industrial Revolution, nationalism and other ideologies, two World Wars, the Cold War, and post-Cold War culture. Attention to analyzing primary source materials. Culture: History.

HIST 111 College Western Civilization

3-F

Survey of Western civilization from ancient Greece to the present. Examination of texts and historiography, with attention to primary sources; students will engage in reading, writing, and discussion about the course material. Taught at participating high schools to selected, qualified students. Culture: History. Liberal Arts.

HIST 126 New York State History

4-WSP

This course surveys the Empire State's history from the Colonial period through the present. The state's history is explored in its own right, but attention is also given to showing how New York state in many respects has been a notable microcosm for broader Colonial and national developments. Liberal Arts.

HIST 191, 192; 291, 292; 391, 392; 491, 492 Independent Study

1, 2, or 4-WSP

Liberal Arts.

HIST 220 American History Survey

4-F

Overview of American history to the present. Culture: History. Liberal Arts.

HIST 223 Latin American History to 1800

4-S

An introductory survey, with attention to cultural interaction during the colonial period. Culture: History. Liberal

HIST 224 Latin American History since 1800

4-F

An introductory survey of Latin America from the revolutionary era to the present. Culture: History. Liberal Arts.

HIST 230 Medieval Europe

4-F&S

A survey of European history and culture that begins with the transition from Roman civilization and ends with the cultural changes that resulted in the Reformation. Particular emphasis is given to the themes of western cultural formation, ecclesiastical development, monastic and lay spirituality, and the birth of fundamental western institutions. Primarily a reading course, primary sources are heavily relied upon. Culture: History.

HIST 249 African History

4-F

Sub-Saharan Africa from earliest times. Medieval empires of western Sudan, colonial rule, emergence of national states. Culture: History. Liberal Arts.

HIST 295, 395, 495 i Special Topics (CDRP, see Foreign Languages)

4-WSP

Group study of selected topics; open only by permission. Liberal Arts.

HIST 325 Europe in the 19th Century (CDRP, see World Languages)

4-F

Growth of liberal democracy, influence of industrial revolution and impact of nationalism. French Revolution to 1890. Culture: History. Liberal Arts.

HIST 326 Europe, 1890-1945

4-F

The changing intellectual climate, World War I, problems of inter-war period, challenges to democracy, background of World War II. Culture: History. Liberal Arts.

HIST 332 History of Rome

4-F

Survey of Roman history and cultures from the beginning of the republic until the disintegration of the empire, emphasizing political and religious developments. Culture: History. Liberal Arts.

HIST 359 Colonial America, 1600-1788

4-F

Settlement of North America with emphases upon religious and social developments as well as upon the American Revolution. Culture: History. Liberal Arts.

HIST 360 Early National Period, 1788-1850

4-S

Establishment of national political institutions and ideologies. Manifest Destiny, institution of slavery, ante-bellum revivalism and reforms, nascent industrialization. Culture: History. Liberal Arts.

HIST 361 Civil War and Industrial America, 1850-1920

4-F

Sectionalism and Civil War, Reconstruction, adaptation to accelerating industrialization and urbanization, and World War I. Culture: History. Liberal Arts.

HIST 362 Recent American History, 1920 to Present

4-S

Immigration, Depression and New Deal, World War II, Cold War, and resurgence of Evangelicalism. Culture: History. Liberal Arts.

HIST 368 The Reformation

4-WSP

A survey of the continental, English, and Roman Catholic reformation of the 16th century. Liberal Arts.

HIST 370 Evangelical Roots

4-F

Looks at Evangelicalism from the 1730s to the present, especially in Britain and America, where most of the movements originated and developed. However, attention is also paid to developments elsewhere, especially in recent decades, when African, Asian and Latin American churches have begun not merely to grow, but to foster innovations of their own, with wider effects. Liberal Arts.

HIST 371 Religion, Fascism, and Communism in 20th Century Europe

4-WSP

Looks at the interaction between Christianity and the churches (evangelical, Protestant, Catholic and Orthodox) on one hand, and the totalitarian ideologies and regimes of twentieth-century Europe on the other. In the process, such ideas as nationhood, class, modernization and secularization are considered, along with their implications for Christian belief and practice, and the various possible, and actual, Christian responses to them.

HIST 381 Historiography

4-WSP

History of historical writings and methods; theories of history. Liberal Arts.

HIST 481 Senior Capstone: Senior History Seminar

4-S

Each student will work with a departmental faculty member to develop or revise a research paper into a substantial historical article. Required for the history major. Liberal Arts.

HIST 496 Honors in History

4-WSP

Liberal Arts.

HUM 306 Varieties of Postmodernism

3-WSP

Interdisciplinary analysis of the many-faceted cultural phenomenon known as "postmodernism." Moves from an initial starting point considering postmodernism as a reaction to various philosophical claims associated with modernity to the meaning and significance of postmodern ideas as they have been transposed into a variety of other contexts in the analytic humanities, literature, arts and sciences. Liberal Arts.

HUM 395 Special Topics

1, 2, 3, or 4-WSP

Liberal Arts.

HUM 401 Pagans and Christians: Ancient and Medieval Texts

4-WSP

Close analysis of some primary texts from ancient medieval times: Plato, Aristotle, Thucydides, Cicero, Augustine, Dante, et al. Develops scholarly skills of research, interpretation, writing; foster awareness of influence of such works on modern thought. Major/minor credit in history. Liberal Arts.

HUM 481 Senior Capstone: Humanities Project

1-F&S

The student undertakes a directed studies project in which he or she produces a paper that synthesizes the historical, literary, and philosophical developments relevant to a selected theme or person. Liberal Arts.

IDEV 313 Intercultural/International Development/Linguistics Internship

1-4-F, S, M, Summer

A practical internship with an organization or ministry that connects service with an intercultural or multicultural setting. Student is to demonstrate the integration of learning and service. Possible for Intercultural, Development, or Linguistics credits. By application only. Can only be done once the required Intercultural/Field Experience has been met. May be repeated.

INCL 195, 295, 395, 495 Special Topics

1, 2, 3, or 4-WSP

Topics offered according to interest and demand. Liberal Arts.

INCL 201 Introduction to Global Issues

4-F&S

Focuses on current global trends and issues. Students examine responsible alternatives seen from an interdisciplinary perspective based on biblical justice and mission. Topics include: poverty, disease, hunger, under-development, illiteracy, corruption, climate change, environmental degradation, religious and ethnic conflict. Students examine responses by global Christians both individually and collectively. This is the entry level course for the Intercultural Studies major. Liberal Arts.

INCL 211 Intercultural Transition and Adjustment

1-F&S

Using the transition model for adjusting to another culture, the student is prepared to move into and adjust to another culture and to gain a basic understanding of the culture. Cross-cultural communication, cross-cultural conflict, and cultural values are also examined as they relate to living and working in another culture. Required for Spanish and French majors (they may take the INCL 310 course) and encouraged for any student going on a study abroad experience. Is usually offered as a part of INCL 310 or may be offered as a course by itself in Mayterm. Liberal Arts.

INCL 243 Cultural Anthropology (CDRP, see Foreign Languages)

4-F

Cultural and social aspects of human behavior; comparison of cultures. Community: Anthropology. Liberal Arts.

INCL 291, 391, 491 Independent Studies

1, 2, 3, or 4-WSP

Liberal Arts.

INCL 305 Introduction to Sustainable Community Development

This course explores how knowledge of ecological systems, globalization, political economy, and the biblical worldview come together in the pursuit of development that is community-minded, just, and ecologically sustainable. Through readings, lectures and fieldtrips, students study complex issues in sustainable development such as the nexus of poverty, the environment, and justice, and the many practical challenges associated with sustainable community development. (Major/minor credit for Sociology, INCL elective or optional elective for Development Concentration, or general elective).

INCL 310 Intercultural Competencies

4-F&S

Explores the knowledge, attitudes, and skills for transitioning into, adapting to, working in, and functioning successfully in an intercultural context. Key topics include cultural values, intercultural communication, researching culture, being a change agent, dealing with conflict, and working with individuals from another culture. Prerequisite for INCL majors/minors: Introduction to Global Issues and Cultural Anthropology, or permission of instructor. Required for INCL 311. Liberal Arts.

INCL 311 Intercultural Experience

0-4-F&S, May, Summer

A cross-cultural experience in an approved setting in an area of service related to student's concentration or field of interest. Preliminary studies and research, the dynamics of living and serving, ongoing mentorship, and periodic reflection will result in the student completing a cultural profile, journal and summary paper on the experience. This experience may be linked to formal study-abroad programs, official internship affiliation, or pre-approved individual arrangements. Note: Please consult with INCL Department regarding requirements for this course before planning your experience. Liberal Arts.

Prerequisite(s): INCL 310

INCL 311 Intercultural Experience (TIMO)

INCL 312 Field Experience in Development

2-4-F&S, M, Summer

A cross-cultural experience in an approved setting in the area of International Development. Preliminary studies and research, the dynamics of living and serving, ongoing mentorship, and periodic reflection will result in the student completing an analysis of the development work experienced in relation to its cultural context. The student will also keep a journal during the experience and write a summary paper on the experience in the culture. This experience may be linked to formal study-abroad programs, official internship affiliation, or pre-approved individual arrangements. Note: Please consult with INCL Department regarding requirements for this course before planning your experience. Liberal Arts.

Prerequisite(s): INCL 310

INCL 313 Intercultural/International Development/Linguistics Internship

1-4-F, S, M, Summer

A practical internship with an organization or ministry that connects service with an intercultural or multicultural setting. Student is to demonstrate the integration of learning and service. By application only. Can only be done once the required Intercultural/Field Experience has been met. May be repeated.

INCL 322 History of Islamic Theology and Movements

4-WSP

Following the death of Muhammad, issues of theological orthodoxy and governmental orthopraxy flourished in a context of conflict and growth. Students will appraise the historical developments of Muhammad's life and his revelations in the areas of theology, philosophy, jurisprudence, governance, literature, and culture. Relying on primary sources and historical disciplines, students will study the wide history of Islamic thought up until the OPEC crisis of 1973-74. Students will gain a confidence in grasping and discerning the many variants within the so-called unified Islamic ummah. Liberal Arts.

INCL 338 Issues in Development

4-S15

Introduces students to key issues in the development field. Themes such as the environment, global health, conflict, poverty and globalization will be examined for insights into topics including holistic development; asset based approaches and methods; social-economic issues; systems and structures (church, NGOs, international institutions, and governments); policy development; and monitoring and evaluation. Designed within an international development framework. Examines individual, community, and institutional issues. Liberal Arts.

INCL 341 Biblical Foundations of Global Christian Service

4-F15

An examination of the biblical foundations of mission based on the concept of missio dei (God's mission). The course explores the extensive Old Testament roots and the New Testament development of mission with special relevance to global Christian service in missions and other cross-cultural venues. Issues and theological themes of significance to these areas of Christian service are explored.

INCL 342 Contextualization in Missions

4-S15

Study of the interaction of the biblical message as it comes to life within a cultural context. The primary focus is on the church, but includes the broader understanding of the kingdom of God. Areas of study include theology, leadership, worship, ministry and kingdom living. Both past and present ideas of contextualization are covered. Liberal Arts.

INCL 346 Governance and Development

4-F15

A study of patterns of governance and politics typical of developing countries with an emphasis in relationships between governance and development. Liberal Arts.

INCL 347 Development Communication and Grant Writing

4-F15

Examines the various theories, methods/approaches, and processes that are used in the development communication field. Case studies will be drawn from many development themes including global health (HIV/AIDS), agriculture, poverty and environment. Emphasis and focus will be on basic principles and values of development communication that challenge the dominant paradigm. Liberal Arts.

INCL 348 Foundations of Health Development

4-May WSP

Explores spiritual, historical, cultural, environmental, economic and political factors that often determine the health of individuals and populations. Case studies and experiences will be drawn from all regions of the world with a focus on interventions at community, national and international levels. Topics range from community health development principles, concepts of holism to national and international health policy and partnership

INCL 350 Culture Change and Its Effects on Traditional Societies

4-F

Globalization is spreading rapidly around the world, and this is causing significant culture change to traditional societies. With a strong focus on history and case studies, this course will make students aware of what is happening and give them the theoretical knowledge to understand, empathize with, and assist people who are wrestling with change. Pre- or Co-requisite: Cultural Anthropology. Liberal Arts.

INCL 360 Introduction to Islamic Foundations

4-WSP

Muhammad's life and writings are the foundations of Islam. The Islamic faith will be appraised through a historical and primary source approach where students will read through the entire Qur'an in chronological fashion and a significant portion of the Hadiths. The student's mastery of Muhammad's life, of Quranic vocabulary and a confident grasp of Quranic theology will give them a strategic appreciation of Islamic history and the present global Muslim community issues. Liberal Arts.

INCL 361 Engaging the Muslim World

4-F14

For over 1400 years, Islam and Christendom have frequently engaged in rival forms of civilization encounters and/or clashes: invasions, polemics, diplomacy, colonization, dialogue, commerce, and academic research, each according to the context of the era. Relying on comparative, historical and missiological methodologies, students will study the ever-changing yet often-repeated approaches to Muslims in chronological appearance and from various Christian communities: the Oriental churches, the Byzantine Orthodox churches, the Roman Catholic Church and the Protestant churches, with a special emphasis on the current Evangelical "contextualized" approaches. Students will gain a strong confidence and learn wise diplomacy in sharing Jesus to Muslims in a wide variety of means. This course has a fee. Liberal Arts.

Prerequisite(s): INCL 360

INCL 440 Unorthodox and Folk Islam

4-WSP

Classical Islam is very resistant to creative theological variants within the Islamic ummah and brands them as deviant heresies, of which Folk Islam is the most common expression. Yet "unorthodox" expressions, even so-called "secular Islam", are far more prevalent forms of Islam among the youth and womenfolk than the orthodox interpretations, and Houghton students and graduates are far more likely to encounter these unorthodox expressions. This requires our students to grasp the diverse roots of widespread Islamic heterodoxy, syncretism, occult expressions, spiritual warfare, and secularism. Liberal Arts.

Prerequisite(s): INCL 360

INCL 441 Islam in North America

4-M WSP

The Islamic movements in North America are unique in being both very recent and limited to Afro-Americans and immigrants. That is changing given that international funding for a vibrant political Islam in America is among the strongest in emerging religions. Students will explore the various sociological expressions, their political aspirations and their texts. Special attention will be given to various Christian ministries to Muslims in North America. Liberal Arts.

Prerequisite(s): INCL 360

INCL 442 Globalization and Islamization

4-WSP

Among the three most vibrant international movements in the emerging 21st century are Christianity, Islam and Globalization, and the most contested nexus are in the techno-secularized cities of the world. Students will focus specifically on the post-colonial conflicts and integration efforts of Muslims in the global communities, and the impact of Globalization on Islamic societies. Attention will be given to recent international clashes between globalized secularism and Muslims, various political and Christian responses and the need for a Christ-centered confident response to both Globalization and Islamization. Liberal Arts.

Prerequisite(s): INCL 360

INCL 482 Senior Capstone: Intercultural Seminar

2-F&S

Joint weekly discussion sessions of all senior majors aimed at reflection on critical broad principles and fine-tuning of abilities for intercultural service. Program faculty assumes team leadership and preparation of topics and format, and they each present a summary session on key issues for the entire seminar. Students each present an approved paper on area of interest stemming from studies and intercultural experience. Several weeks may be set aside for specific disciplines to meet separately for capstone discussions in their field. Liberal

INCL 482 Senior Intercultural Seminar (TIMO)

INCL 484 Integrative Senior Seminar

4 or 6-F&S

Student will participate in the Senior Seminar for the INCL major and the companion major. In cooperation with the advisor of each major the student will develop one research project that meets the requirements for each

INCL 496 Honors in Intercultural Studies

4-S

Liberal Arts.

INDS 321, 322, 323, 324, 325, 326 Honors Seminar

1-F&S

Topical seminars open to students who have completed one of Houghton's gateway honors curricula. Weekly discussion of readings or other primary sources culminating in a substantial paper. Successful completion of three honors seminars will be recognized on a student's transcript by the words, "Comprehensive Honors". Courses need to be completed sequentially.

INDS 482 Senior Capstone: Interdisciplinary Studies

1-4-WSP

INST 101, 102 Applied Lessons

1, 2, or 3-F&S

Normal level for introductory private study, non-majors. Permission of appropriate studio faculty. For voice: successful completion of MCLV II or permission. For piano: successful completion of MKBD IV or permission.

INST 201, 202 Applied Lessons

1, 2, or 3-F&S

Normal entering level for Bachelor of Arts, Composition, Music Education, and Bachelor of Music with Non-Music Elective Studies majors. Audition required, or prerequisite of INST 102 and permission of studio faculty.

INST 301, 302 Applied Lessons

1-6-F&S

Normal entering level for Performance majors; intermediate private study, Bachelor of Arts, Composition, Music Education, Bachelor of Music with Non-Music Elective Studies majors, minors, and elective study. Audition required, or INST 202 as prerequisite.

INST 401, 402 Applied Lessons

1-6-F&S

Advanced private study for BMus. majors. Prerequisite: INST 302 and successful Sophomore Review.

INTS 102 Transitions 102: Succeeding at Houghton (P/F)

1-F

Consideration of topics essential to success as a student in Houghton's Christian academic community. Introductory experiences in individual and collaborative reading, writing, research and discussion facilitated by Houghton student and faculty leaders. Content focused on the Houghton Reads book (summer reading distributed during Transitions 101 days) and related supplementary materials. Exploration and understanding of the Christian perspectives and behavioral expectations embodied in the Houghton Community Covenant. Consideration of other selected social, intellectual and theological issues pertinent to Christian life in a global twenty-first century world. Orientation to successfully navigating and utilizing the offices and services of the College. Required for all first-year students; fulfills the IS: Transitions requirement.

INTS 104 Transitions for Transfers: Succeeding at Houghton College

0-F&S

Transitions for Transfers is a half semester course required for all entering transfer students. The course is designed to address the unique circumstances, both social and academic, of transfer students who have already had previous experience with college life. The class acquaints new students with life on the Houghton campus, college policies, and available services and resources provided by the college. Course topics include academic integrity, career counseling and services, financial literacy, academic records and course selection, graduation requirements, and library resources. Social gatherings and activities are planned to provide opportunities for new students to become acquainted and involved in campus life.

INTS 149 Honors: East Meets West Proseminar (P/F)

1-F

Introduction to the themes and problems of East Meets West Honors. Introduces topics such as Balkans history, Balkan literature, and approaches to political conflict and world order. Combines lectures with seminar discussions, emphasizing critical reading and writing. Pass/Fail. Liberal Arts.

INTS 150 Science Honors Seminar

1-F

Introductory overview of the topic for Science Honors, which focuses on a scientific question of societal importance. Reserved for first-year Science Honors students. Liberal Arts.

INTS 153 East Meets West

9-S, 3-May

Combines a traditional humanities and social science curriculum with the opportunity to study the interaction of Eastern and Western culture. Integrating the disciplines of history, literature, theology and politics, this course surveys the development of Western culture by focusing on the West's historic interaction with the Orthodox and Islamic cultures of the Mediterranean, Eastern Europe, and the Mideast. The Mayterm trip to the Balkans provides a unique learning experience. Competency: Writing; Faith Foundation: Theology; Culture: History; Culture: Literature. Liberal Arts.

INTS 154 Science Honors I

3-S

Insights drawn from the disciplines of biology, chemistry, physics, writing, and communication are applied to understanding, communicating and solving a scientific question of societal importance. Classroom activities, which include lectures, laboratory experiments, writing, and speaking, are motivated by the students' need for the specific information and skills required to reach a solution. Reserved for first-year Science Honors students. INTS 154 taken concurrently with INTS 157 and INTS 159. Creation: Lab Science or 2nd Science. Liberal Arts.

INTS 155 Science Honors II

4-May

Insights drawn from the disciplines of biology, chemistry, physics, writing, and communication are applied to understanding, communicating and solving a scientific question of societal importance. Classroom activities, which include lectures, laboratory experiments, writing, and speaking, are motivated by the students' need for the specific information and skills required to reach a solution. Reserved for first-year Science Honors students. Creation: Lab Science or 2nd Science. Liberal Arts.

Prerequisite(s):MATH 181, INTS 154

INTS 156 Science Honors: Writing

1-F

Writing Component of INTS 150. Reserved for first-year Science Honors students. INTS 156 taken concurrently with INTS 150.

INTS 157 Science Honors: Writing II

1-S

Writing Component of INTS 154. Reserved for first-year Science Honors students. INTS 157 taken concurrently with INTS 154 and INTS 159. Competency: Writing. Liberal Arts.

Prerequisite(s):INTS 156

INTS 159 Science Honors: Communication

2-S

Communication component of INTS 154. Reserved for first-year Science Honors students. INTS 159 taken concurrently with INTS 154 and INTS 157. Community: Communication. Liberal Arts.

INTS 167 Imagining Wholeness: Psychology and Literature

4-F14

Examines descriptions of the fragmentation of modern and postmodern life in psychology and literature, along with prescriptions for restoring wholeness, order, and meaning. Connections to art, religion, and drama include a visit to New York City. Lectures combine with seminar discussion and small-group tutorials. IS: Culture (Literature) and Community (Psychology). Liberal Arts.

INTS 203 Literature and Wisdom

6-F or S

Critical analysis of the contours of a world and life view combined with an introduction to the Western literary heritage and a detailed critical analysis of perennial and foundational issues in epistemology (the nature of truth and knowledge), metaphysics (the nature of reality: persons, the world and God), and ethics. Includes works of poetry, drama and fiction as well as philosophical texts from the classical to the postmodern era. Culture: Literature; Culture: Philosophy. Liberal Arts.

INTS 235 Interpreting the Environment: Trail Development

2, 3, or 4-F&S

Principles, processes, and techniques used to interpret the environment and develop interpretive materials, centers, and trails. Through service-learning, students will develop interpretive, recreational, meditative, exercise, or other trails to complement their major program or integrative studies. One hour lecture/3, 4.5, or 6 hours applied (depending on credit hours chosen-3 applied hours for 2 credits, 4.5 for 3 credits, and 6 for 4 credits). Applied hours include research and preparation of interpretive presentations as well as trail

LING 101 Arabic Language

4-WSP

Arabic is spoken in various regional dialects throughout the Arab world. This class introduces Modern Standard Arabic (MSA), the commonly understood language used in all media and the academic and intellectual community. While MSA is not the “street language” of any particular country, it provides an excellent grounding towards fluency in any particular dialect in the Arab world. Those who wish to go beyond this one semester introduction will be directed to an intensive Arabic program within the Arab world. Liberal Arts.

LING 220 Introduction to Linguistics

4-F

An introduction to the basic sub-fields of linguistics. Emphasis on phonetics and phonology (the study of sounds and systems of sounds), morphology (the study of word formation), syntax (phrase and sentence formation and function), and semantics (the study of meaning in language), pragmatics (how language is used in wider contexts) and historical linguistics (how language changes over time). Liberal Arts.

LING 291, 292; 391, 392; 491, 492 Independent Study

1, 2, 3, or 4-WSP

Liberal Arts.

LING 295, 395, 495 Special Topics

1, 2, 3, or 4-WSP

These offerings take advantage of faculty expertise to focus on advanced linguistic topics of interest to the student body. Special Topics courses can include Conversational Language Learning and Analytical Methods, The Structure of African Languages, and others. Prerequisites to be determined at the time of offering. Liberal

LING 312 Sociolinguistics

4-S16

Explores the sociology of language, focusing on language use patterns in multilingual societies around the world; language maintenance and death, language attitudes, internal and external language change, the development of pidgins and creoles, endangered languages, language documentation, development and revitalization.

LING 313 Intercultural/International Development/Linguistics Internship

1-4-F, S, M, Summer

A practical internship with an organization or ministry that connects service with an intercultural or multicultural setting. Student is to demonstrate the integration of learning and service. Possible for Intercultural, Development, or Linguistics credits. By application only. Can only be done once the required Intercultural/Field Experience has been met. May be repeated.

LING 322 Phonetics

4-F14

An introduction to the theory and practice of articulatory phonetics; students learn to produce, perceive and transcribe with symbols all sounds known to be used in human language; intensive drill in definition, recognition, production, and transcription of the whole range of sounds used in human speech. Liberal Arts.

LING 323 Phonology I

4-S15

Explores sound systems of the world's languages with a focus on identifying and analyzing phenomena including: consonants, vowels, syllables, tone, intonation, stress, length of consonants and vowels, the organization of sound systems, and how sounds affect one another; the examination includes detailed discussion of discovery procedures and theoretical perspectives which provide an analytical framework. (Prerequisite/Co-requisite: LING 322 Phonetics, or permission of instructor.) Liberal Arts.

LING 333 Grammar I

4-F15

Explores grammar in the world's languages from a functional and typological theoretical perspective, focusing on techniques for identifying, understanding, and analyzing the variety of grammatical patterns attested throughout the world. The course provides a solid grounding in major issues of syntactic theory concerning linguists today. Liberal Arts.

LING 350 First and Second Language Acquisition

4-S16

Explores linguistic, psychological, and sociocultural contexts of language acquisition as well as implications for both formal and informal language teaching and learning. In addition to course readings and class discussions, students examine areas of language acquisition theory through their own research and writing. Liberal Arts.

LING 351 Linguistics for TESOL (Teaching English to Speakers of Other Languages)

4-F14

Examines some of the unique challenges facing English language learners through an exploration of English phonetic, phonological, morphological, syntactic, semantic and pragmatic phenomena; Study includes transfer problems between other languages and English and the implications for teaching English in multiple contexts.

Prerequisite(s): LING 220

LING 355 Theory and Practice of Bilingual Education

3-4-WSP

Designed as an introduction to bilingual education and bilingualism. Study of the sociolinguistic and psycholinguistic issues that surround bilingualism and bilingual education. An attempt is made to balance the psychological and the sociological, the macro education issues and the micro classroom issues, the linguistic and the sociopolitical, and to balance discussion at the individual and societal levels. Recommended

LING 360 Conversational Swahili

2-4-F

will be taught that will meet most conversational needs. The vocabulary will be limited to the kind of words that would commonly be used in rural village life in Tanzania. The focus in class will be on hearing and speaking Kiswahili. Liberal Arts.

LING 370 Understanding English Grammar

4-F15

Explores the grammar of English from a linguistic perspective, utilizing a functional and typological theoretical framework. Students will examine the historical development of English, morphology, lexicon, the ways in which words and morphemes can be combined into phrases, clauses, sentences, and larger units. Students will analyze English data to better understand why speakers of English speak the ways they do. The course also provides a basic overview of syntactic theory and major issues in modern linguistics. Prerequisite: LING 220, or permission of instructor. Liberal Arts.

LING 371 TESOL Methods: ELA

2-F

Examines the language, reading and writing development of English language learners. It explores assessment and instructional methods of teaching English Language Arts to speakers of languages other than English. It also explores ways of creating a classroom learning environment that encourages English language and literacy development for all learners. Prerequisites: LING 220, LING/EDUC 351 and LING 350, or permission of instructor.

LING 373 TESOL Field Experience

2-F

Taken concurrently with TESOL Methods: ELA, this weekly practicum provides experience working in both formal and non-formal settings with learners of English as a second language; it provides students completing the Intercultural Studies TESOL Concentration or TESOL Minor an opportunity to gain guided practice in putting their learning into practice. Prerequisites: LING 220, LING 351 and LING 350, or permission of instructor.

MATH 100 Mathematics Survey

3-S15

A one-semester course taught for students who might or might not take additional college mathematics courses. The objective of this course is to reintroduce concepts in arithmetic and number theory, as well as to reinforce concepts in elementary algebra and basic geometry. Emphasis will be placed on practical use of mathematics. Topics will include arithmetic operations, linear equations, word problem solving and basic

MATH 111 Math for the Liberal Arts

4-F14

A survey course intended to introduce students to several ideas of mathematics, their historical context, and their applications and significance in society. The course will cultivate an appreciation of the significance of mathematics and develop student's mathematical reasoning through selected topics in logic, set theory, probability, statistics, number theory, graph theory, the real number system, and problem solving. Creation:

MATH 115 Fundamentals of Calculus

A problem-based approach to the basic ideas of calculus, beginning with a discussion of topics that precede calculus, including linear functions and polynomials. The calculus portion discusses velocity, tangent lines, and areas. Incorporates peer group work with a strong emphasis on graphing technology. With this course, students will become acquainted with calculus, the math that helped create the industrial revolution and is the driving force behind modern technology. This course is not intended to prepare students for Calculus I, but rather to expose students who do not need a rigorous course to the ideas of calculus. Creation: Math. Liberal Arts.

MATH 131 Principles of Statistics

4-S15

This course introduces students to basic concepts and applications of probability theory and statistics. Students will learn how to collect, describe, understand, use, and interpret data in meaningful ways. Topics will include sampling procedure & bias, summary statistics, graphical displays, probability and probability distributions, statistical inference, correlation and linear regression. This course does not satisfy requirements for any major. Creation: Math. Liberal Arts.

MATH 170 Calculus I with Pre-calculus A

4-F

Together with MATH 171 Calculus I with Pre-calculus B, this course covers all the material of MATH 181 Calculus I with integrated treatment of pre-calculus topics. Expected calculus topics include limits, continuity, and the Intermediate Value Theorem; the theory and computation of differentiation of algebraic and trigonometric functions and applications of differentiation including tangent lines and related rates. Pre-calculus topics to support these topics will be addressed as needed. Students who received an SAT Math score of 550 or lower or equivalent who need to take Calculus I must complete this course. Enrollment by permission only. Creation:

MATH 171 Calculus I with Pre-calculus B

4-S

Together with MATH 170 Calculus I with Pre-calculus A, this course covers all the material of MATH 181 Calculus I with Integrated treatment of pre-calculus topics. Expected calculus topics include applications of derivatives including optimization, curve-sketching, and the Mean Value Theorem; introduction to Integration, including the Fundamental Theorem of Calculus, computation of areas, and the technique of substitution; calculus of transcendental functions, Pre-calculus, computation of areas, and the technique of substitution;; calculus of transcendental functions. Pre-calculus topics to support these topics will be addressed as needed. Students who complete this course with a C have fulfilled the pre-requisite for Calculus II. Creation: Math. Liberal Arts.

Prerequisite(s):MATH 170

MATH 181 Calculus I

4-F

A first semester of single variable calculus including limits, continuity, and the Intermediate Value Theorem; theory and computation of differentiation of algebraic, trigonometric, and transcendental functions; applications of derivatives including optimization, curve-sketching, related rates, and the Mean Value Theorem, introduction to integration, including the Fundamental Theorem of Calculus, computation of areas, and the technique of substitution. Prerequisites: Students must have an SAT Math score higher than 550 or equivalent, or permission of the instructor. Students who have completed MATH 171 cannot take this course. Creation:

MATH 182 Calculus II

4-F&S

A second semester of single variable calculus including derivatives of all transcendental functions and L'Hôpital's rule; theory and techniques of integration including substitution, parts, trigonometric substitution, partial fractions, and improper integrals, applications of integrals including area, volume, arc length, and surface areas; sequences and series, including Maclaurin and Taylor series; basic calculus for parametric equations and polar coordinates. Prerequisite: MATH 171 or MATH 181. Creation: Math. Liberal Arts.

MATH 210 Introduction to Proofs

2-F

Introduces the central idea of proof in mathematics and some standard proof formats that are used throughout the math major. The course includes propositional logic, an introduction to predicate logic, direct proof, proof by contradiction, and mathematical induction. Prerequisite: MATH 171 or MATH 181. Liberal Arts.

MATH 214 Discrete Mathematics

2-F15

Introduction to discrete mathematical topics: equivalence relations, partial orders, functions, recurrence relations, counting, introduction to probability, graphs, and introduction to algorithm analysis. Liberal Arts.

Prerequisite(s):MATH 210

MATH 225 Multivariate Calculus

4-S15, F15

Space geometry, vectors, vector function, function of several variables, partial differentiation, multiple integration. Liberal Arts.

Prerequisite(s):MATH 182

MATH 241 Differential Equations

4-F14, S16

Methods of solution and applications of principle types of differential equations. Liberal Arts.

Prerequisite(s):MATH 182

MATH 261 Linear Algebra

4-S

Linear algebra: vector spaces, linear mappings, inner products and matrices. Prerequisite: MATH 171 or MATH 181. Liberal Arts.

MATH 281 History of Mathematics

4-WSP

A contextual study of the history of mathematics and some of the classical problems. Liberal Arts.

Prerequisite(s):MATH 182

MATH 295, 296; 395, 396; 495 Special Topics in Mathematics

Previous topics include: graph theory; knot theory; number theory; linear algebra II. Liberal Arts.

MATH 325 Real Analysis I

4-S

This course develops a rigorous foundation for the fundamental topics covered in calculus: continuity, differentiability, integrability, and convergence based on limits and the axioms of the real number system. Liberal Arts.

Prerequisite(s):MATH 182, MATH 210, MATH 261

MATH 331 Numerical Analysis

4-WSP

Representation of numeric data. Error analysis, mathematical basis, and limitations of techniques relating to selection of method. Topics: linear and nonlinear systems, curve fitting, numerical calculus, programming in MatLab. Liberal Arts.

MATH 333 Probability and Statistics I

4-F15

This course introduces students to discrete and continuous probability, including conditional probability, random variables, independence, Bayes's Theorem, expected value, variance, distributions, and the Central Limit Theorem. Using the probability covered in the first half of the semester, the course also covers some of the main topics of mathematical statistics, including statistical hypothesis testing, errors, correlation, regression equations, and analysis of variance. Co-requisites: MATH 210 and MATH 225. Liberal Arts.

MATH 341 Mathematical Modeling

2-4-F14

A course designed to develop an appreciation for and an understanding of the mathematics of complex systems. Particular problems from the life sciences and social sciences illustrate the principles and process of mathematical modeling and motivate the development of tools and techniques employed throughout applied mathematics. Liberal Arts.

Prerequisite(s):MATH 241

MATH 351 Modern Geometries

4-S15

A survey of geometry including advanced Euclidean geometry and an introduction to non-Euclidean geometries. Liberal Arts.

Prerequisite(s):MATH 182, MATH 210

MATH 361 Abstract Algebra I

4-F

Groups and subgroups, rings and ideals, fields, homomorphisms, and isomorphisms. Liberal Arts.

Prerequisite(s):MATH 210, MATH 261

MATH 380 Mathematics Research Seminar

1-S

This course introduces students to the experience of mathematics research. Each student will be part of a team working with a faculty member on an open problem. This course may be repeated multiple times for credit.

Prerequisite(s):MATH 210

MATH 391, 392; 491, 492 Independent Study

Liberal Arts.

MATH 393 Summer Collaborative Research in Mathematics

1, 2, 3, or 4-Summer

Summer research in collaboration with a mathematics faculty member, focusing on a current area of mathematical research. Students work intensively with a faculty member over the course of four weeks during the summer. Prerequisites will be according to the chosen area of research. Liberal Arts.

MATH 425 Real Analysis II

2-4-WSP

This course covers selected topics from real and functional analysis, building on the foundation from Real Analysis I. Liberal Arts.

Prerequisite(s):MATH 325

MATH 433 Probability and Statistics II

2-4-WSP

This course covers topics selected from parametric and non-parametric hypothesis testing, ANOVA, partial and multiple correlation methods, regression, curve fitting, and Monte Carlo simulation. Liberal Arts.

Prerequisite(s):MATH 333

MATH 452 Point Set Topology

4-WSP

Open and closed sets. Connected, compact, and metric topological spaces. Liberal Arts.

Prerequisite(s):MATH 261

MATH 461 Abstract Algebra II

2-4-WSP

A continuation of material from Abstract Algebra I. Topics may include advanced group theory and ring theory, Sylow theorems, modules and vector spaces, Galois theory, and finite fields. Liberal Arts.

Prerequisite(s):MATH 361

MATH 471 Complex Analysis

4-WSP

Complex number system, limits, differentiation and integration in the complex plane, complex series.

Prerequisites: courses listed below or permission. Liberal Arts.

Prerequisite(s):MATH 225, MATH 325

MATH 482 Senior Capstone: Mathematics Seminar

4-S

A capstone course which draws on many other courses. Emphases on formulating, solving, and explaining challenging problems in both verbal and written form. For seniors, except by permission. Liberal Arts.

MATH 496 Honors in Mathematics

Liberal Arts.

MBCM 201 Intro to Music Technology and Recording Arts

3-F

An introductory survey of the history and theoretical foundations of music technology and recording arts. Topics include acoustics, audio principles, Digital Audio Workstation basics, recording technologies, studio basics, fundamentals of computers for audio, MIDI basics, and audio software/technology troubleshooting. Students will be given a basic overview of each of the areas under study and will be able to perform rudimentary operations in each skill area.

MBCM 206 Introduction to Music Business

3-S

An introductory overview of the recording and music industry and the operations of the various segments of the industry. Students will gain an understanding of where monies are generated, how to protect your interests, who key payers are in the business, how deals are made and broken, and how new developments in digital technology are changing the way music is marketed, promoted, distributed, and heard. This course presents students with the career opportunities that are available within the industry, and the knowledge needed to

MBCM 210 Introduction to Lighting and Design

3-S or F 2015

This course covers techniques of designing lighting for various stage forms, creative planning and projection of designs for specific productions. Students will learn the fundamentals of seeing differently in lighting design, exploring the mind's eye, and learn how to "paint" with light. Students will also translate theatrical and musical moments into lighting sketches, storyboards, and atmospheres, learn transitioning from one atmosphere to another, and develop points of view and approaches. Fundamentals of the tools of the lighting designer, preparation for theater, production techniques, concert techniques and assistant skills are covered.

MBCM 307 Advanced Music Production

3-F

Explores core concepts of acoustics and psychoacoustics, the MIDI protocol, music composition and performance using MIDI, hardware-based sound synthesis, software-based sound synthesis (virtual instruments), effects plug-ins, and audio sampling through the creation, performance and production of music works in the electronic medium. Students will gain a deep understanding of the MIDI protocol and will explore the implications of MIDI and effects in the context of music production, recording, composition, and

MBCM 308 Recording and Studio Technique

3-S

Examines the technical aspects and the aesthetic implications of digital audio software tools, digital audio theory and practice, and advanced sound recording techniques. Students analyze console signal flow, explore microphone techniques, and discuss professional session protocol. Students explore these topics through the creation of music using a variety of recording/microphone techniques and computing tools including Pro Tools.

MBCM 315 Music Production Analysis

3-2015 TBD

This course distills decades of experience from recording producers into a focused step-by-step approach of the essential elements of successful records. This course will examine the emotional aspect of music and how that incorporates into memorable musical experiences. The genres may change, the message and lyrics may change, but the actual craft of making a great record remains the same. This course will develop listening skills, and teach how producers who have 30 years of experience listen to music differently than developing producers.

MBCM 408 Critical Listening and the Art of Mixing

3-WSP

This course provides recording musicians, producers and engineers with a better sense of the mixing process and explores the creative and technical considerations necessary to mix in today's music production environment. Students will develop their ability to hear and identify the key features of a well-balanced and professional mix. The course explores musical width and depth, EQ and frequency range, dynamics, panning, reverb, delay, compression, phasing, distortions, dynamic processing, automation techniques, and different mix

MBCM 409 Sound Design and Processing

3-WSP

This interdisciplinary course introduces the fundamentals of digital signal processing, musical systems programming, and a wide range of sound design and processing techniques through the SuperCollider programming language and Pro Tools. Students will explore fundamentals of object-oriented computer programming and musical digital signal processing in this project-based course, focus on the creation and performance of music, synthesis, and sound effects using cutting edge computer tools, and investigate the creation of their own audio synthesis and transformation software.

MBCM 489 Music Industry Internship

1-3-F/S/Summer

An internship in music industry is intended as a capstone experience for program studies in music and music industry. Internships may take place in the fields of music business, artist management, marketing, promotions, live sound, recording, and/or various production environments. Students are encouraged to make contact with potential internship programs well before their internship semester. Music industry internships are usually done in the final semester following completion of the student's other required coursework.

MCHU 311 Historical Congregational Song

2-F13

Introductory history of hymnology from the early Christian Church to about 1950. An investigation of hymnic poetic and musical styles. Stress upon familiarity with the hymnal. When taken with MCHU 312 meets Culture: Art or Music. Liberal Arts.

MCHU 312 Recent Congregational Song

2-F13

Survey of diverse streams of Christian congregational song in English from about 1950 to the present time, including: songs of "hymn explosion", songs of the liturgical renewal, Praise & Worship repertoire, and global song. Basic music-reading ability is expected. When taken with MCHU 311 meets Culture: Art or Music.

MCHU 451 Music and Worship

4-WSP

Music and liturgical practices in the history of the Christian Church and consideration of issues in contemporary worship practice in light of church history and Christian theology. Culture: Music. Liberal Arts.

MCHU 475 Service Playing, Piano

1-S

Development of keyboard skills with special application to piano playing in church service: melody harmonization and reharmonization, hymn playing and transposition, accompanying (solo and choral), extemporization in various styles. Permission of instructor. Required of piano majors and piano concentrations

MCHU 476 Service Playing, Organ

2-S

Development of keyboard skills with special application to organ playing in church service: melody harmonization, bass realization, hymn playing and transposition, accompanying (solo and choral), extemporization in various styles. Permission of instructor. Required of organ majors and organ concentration

MCLV I Class Voice I

1-F&S

Study of posture, breath control, tone production, and diction. Textbook used. Includes both group and individual singing of simple vocalises and songs in English. Hearing required. Six hours practice.

MCLV II Class Voice II

1-F&S

Continued study of basic vocal techniques. Emphasis on individual singing of vocalizes and songs in English. Introduction to Italian diction. Hearing required. Six hours practice.

MED 210 Field Experiences in Music Education

2-May

Students participate in three weeks of field experiences in high-need school districts working as teachers'™ assistants and meet in a weekly seminar to discuss their experiences. Designed to fulfill the New York State field experience mandate; students earn 75-90 hours of field experience credit taken during freshmen or sophomore years. Students may opt to take EDUC 240, Teaching in Urban America, in lieu of this course. Taken concurrently with MED 211. (See Greatbatch School of Music Handbook for detailed explanation of Field Experience and other Certification requirements.)

MED 211 Workshop: Language Acquisition and Literacy Development

0-May

Introduces Music Education majors to foundational concepts surrounding language acquisition and literacy development, and provides resources for developing the listening, speaking, reading, and writing skills of native English speakers and students who are English language learners. Taken concurrently with MED 210.

MED 227 String Techniques

2-S (even years)

Preparation for teaching violin, viola, cello, and double bass through the high school level. Development of playing and demonstration abilities. Survey of methods and materials. Two hours class, three hours practice.

MED 240 Percussion Techniques

2-F (even years)

Preparation for teaching percussion instruments through high school level. Development of playing skills on timpani, mallet instruments, drums. Survey of percussion ensemble music and other materials. One class per week, three hours practice.

MED 241 Brass Techniques

2-S (odd years)

Preparation for teaching brass instruments through the high school level. Development of playing and demonstration abilities. Survey of methods and materials. Two hours class, three hours practice.

MED 242 Woodwind Techniques

2-F (odd years)

Preparation for teaching woodwind instruments through the high school level. Development of playing and demonstration abilities. Survey of methods and materials, two class hours, three hours of practice.

MED 351 Elementary School Methods

2-F

Preparation for teaching general music in kindergarten through sixth grades. Particular emphasis upon preparation to teach according to the New York State Learning Standards for the Arts.

MED 352 Secondary School Methods

2-S

Preparation for directing secondary school (grades seven-12) choral ensembles and for teaching secondary level general music and other non-performance music classes. Particular emphasis upon preparation to teach according to the New York State Learning Standards for the Arts.

MED 354 Instrumental Methods

2-S

Instrumental music program in public schools. Organization and training of school orchestras, bands, and instrumental classes; pedagogical methods of the standard band and orchestra instruments. Particular emphasis on preparation to teach by the New York State Learning Standards for the Arts.

MED 405 Student Teaching in Music

12-F

Practical experience teaching music in public schools. Two placements, six-to-seven weeks each, one on the elementary level (grades K-six), and one on the secondary level (grades seven-12). Criteria for approval: Completion of required professional education coursework as per emphasis, cumulative GPA of at least 2.70, documentation of at least 100 hours of field experience, and approval by the student teaching committee.

MED 419 Student Teaching Seminar

2-F

Seminar during and following student teaching dealing with effective teaching practices including problems of motivation, group management, curriculum development, and musical education goals.

MHS 222 Introduction to Film Music

3-WSP

History and aesthetics of music written for Hollywood films. Exploration of the sociology, philosophy, psychology, and technique of film music. Review of the elements of musical style with particular emphasis on their relation to the dramatic aspects of film. Written work emphasizing critical analysis of the use of music in various American film genres. Culture: Music. Liberal Arts.

MHS 223 History of Jazz and Popular Music in the US

3-Mayterm

Overview of origins and development of popular music idioms in the US with particular emphasis on music of 20th Century. Genres covered include Blues, Jazz, Rock n' Roll, Rhythm and Blues, Pop, Country, and Music Theater, and several smaller genres derived from these. Culture: Music Liberal Arts

MHS 231 Music History and Literature I

2-F

Development of music from earliest times through the Renaissance. Principles of listening and style analysis. Literature and style of various schools. Listening, examination of scores, performance, research reports, lectures, discussion. With MHS 232 satisfies Culture: Music. Liberal Arts.

MHS 232 Music History and Literature II

2-S

Continues MHS 231, from late Renaissance through Baroque (1750). With MHS 231 satisfies Culture: Music. Liberal Arts.

MHS 254 Music of World Cultures

3-WSP

Survey of Asian, Latin American, African, European music; listening experience, with research and analysis. Introduction to ethnomusicology to broaden student's perspective. Recommended for those interested in mission field or intercultural relations. Culture: Music. Liberal Arts.

MHS 333 Music History and Literature III

3-F

Development of early classic through romantic music styles in cultural context. Principles of listening and style analysis. Introduction to basic bibliography and research. Principles of a Christian aesthetic. Culture: Music. Liberal Arts.

MHS 334 Music History and Literature IV

3-S

From late romantic through 20th century styles. Emphasis on individual research, writing, and class presentations. Evaluation of musical-cultural trends from a Christian perspective. Culture: Music. Liberal Arts.

MHS 490 Topics in Music History

3-F&S

Historical and analytical study of works from the topic chosen for each semester's offering. Topics may include focused period surveys, specific composer studies, national or regional musics, specific major works, genre surveys, etc. Liberal Arts.

MIN 210 Introduction to Christian Ministries

3-F15 & alternate years

Investigation of the Biblical, historical, and practical foundations for ministry as essential components of Christian vocation. Lay and professional aspects of ministry are explored in the context of the vocational call. A broad overview of ministry-related fields will be presented, including parish, educational, cross-cultural, and parachurch ministries. This course is recommended for anyone who is interested in any form of full-time

MIN 316 Worship in the Church

3-F14 & alternate years

An introduction to liturgical theology including explorations into the Biblical and theological foundations for worship and the sacramental life of the church. Special emphasis is given to the task of contextualization in planning worship services, and examining the pastoral role in the church's liturgical life and witness.

MIN 317 Leadership in the Church

3-S15, & alternate years

Study of the pastoral office as it relates to the roles of counselor and administrator. Theories and techniques of pastoral counseling are considered. The administrative duties of the pastor are emphasized, with particular focus on church management, Parliamentary Law, and The Discipline of The Wesleyan Church.

MIN 324 Principles of Expository Preaching

4-S

Focus is on the preparation and delivery of sermons. Combines the theory of organizational structure along with the tools and techniques for biblically-based preaching. Includes practice in preparing and preaching various types of expository sermons. Prerequisite: Presentational Speaking or permission.

MIN 410 Ministerial Field Education

3-6-Summer

Professional field experience in a local church during a summer internship. Combines theory and practice of ministry through seminars and on-site supervision; focuses upon pastor as worship leader and pastor as

MISS 191, 192; 291, 292; 391, 392; 491, 492 Independent Study

1, 2, 3, or 4-WSP

MISS 241 History of the Global Christian Movement

4-WSP

A study of the expansion and development of the global Christian movement with emphases upon chronological and geographical growth and cross-cultural interchange and partnership from apostolic days to the present. Special attention to connections to issues and relationships in the global church in today's world. Liberal

MISS 242 Missions and the Global Church

4-S16

Survey the contemporary state of the global church and its mission; introduction to theology of missions, goals, and strategies; special attention to current trends, issues, and research.

MISS 295, 395 Special Topics in Missions

1, 2, 3, or 4-WSP

Topics offered according to interest and demand.

MISS 311 Cross Cultural Field Experience

3 or 4-WSP

Introduction to mission work through pre-approved cross-cultural ministry either overseas or in North America. Guided readings and a project are required in consultation with the instructor. INCL 211 Intercultural Transition and Adjustment is recommended.

MISS 322 History of Islamic Theology and Movements

4-WSP

Following the death of Muhammad, issues of theological orthodoxy and governmental orthopraxy flourished in a context of conflict and growth. Students will appraise the historical developments of Muhammad's life and his revelations in the areas of theology, philosophy, jurisprudence, governance, literature, and culture. Relying on primary sources and historical disciplines, students will study the wide history of Islamic thought up until the OPEC crisis of 1973-74. Students will gain a confidence in grasping and discerning the many variants within the so-called unified Islamic ummah. Liberal Arts.

MISS 341 Biblical and Theological Foundations of Missions

4-F15

An examination of the biblical foundations of mission based on the concept of missio dei (God's mission). The course explores the extensive Old Testament roots and the New Testament development of mission with special relevance to global Christian service in missions and other cross-cultural venues. Issues and theological themes of significance to these areas of Christian service are explored.

MISS 342 Contextualization in Missions

4-S15

Study of the interaction of the biblical message as it comes to life within a cultural context. The primary focus is on the church, but includes the broader understanding of the kingdom of God. Areas of study include theology, leadership, worship, ministry and kingdom living. Both past and present ideas of contextualization are covered. Liberal Arts.

MISS 360 Introduction to Islamic Foundations

4-WSP

Muhammad's life and writings are the foundations of Islam. The Islamic faith will be appraised through a historical and primary source approach where students will read through the entire Qur'an in chronological fashion and a significant portion of the Hadiths. The students' mastery of Muhammad's life, of Quranic vocabulary and a confident grasp of Quranic theology will give them a strategic appreciation of Islamic history and the present global Muslim community issues. Liberal Arts.

MISS 361 Engaging the Muslim World

4-F14

For over 1400 years, Islam and Christendom have frequently engaged in rival forms of civilization encounters and/or clashes: invasions, polemics, diplomacy, colonization, dialogue, commerce, and academic research, each according to the context of the era. Relying on comparative, historical and missiological methodologies, students will study the ever-changing yet often-repeated approaches to Muslims in chronological appearance and from various Christian communities: the Oriental churches, the Byzantine Orthodox churches, the Roman Catholic Church and the Protestant churches, with a special emphasis on the current Evangelical "contextualized" approaches. Students will gain a strong confidence and learn wise diplomacy in sharing Jesus to Muslims in a wide variety of means. This course has a fee. Liberal Arts.

Prerequisite(s):MISS 360

MISS 440 Unorthodox and Folk Islam

4-WSP

Classical Islam is very resistant to creative theological variants within the Islamic ummah and brands them as deviant heresies, of which Folk Islam is the most common expression. Yet "unorthodox" expressions, even so-called "secular Islam", are far more prevalent forms of Islam among the youth and womenfolk than the orthodox interpretations, and Houghton students and graduates are far more likely to encounter these unorthodox expressions. This requires our students to grasp the diverse roots of widespread Islamic heterodoxy, syncretism, occult expressions, spiritual warfare, and secularism. Liberal Arts.

Prerequisite(s):MISS 360

MISS 441 Islam in North America

4-May WSP

The Islamic movements in North America are unique in being both very recent and limited to Afro-Americans and immigrants. That is changing given that international funding for a vibrant political Islam in America is among the strongest in emerging religions. Students will explore the various sociological expressions, their political aspirations and their texts. Special attention will be given to various Christian ministries to Muslims in North America. Liberal Arts.

Prerequisite(s):MISS 360

MISS 442 Globalization and Islamization

4-WSP

Among the three most vibrant international movements in the emerging 21st century are Christianity, Islam and Globalization, and the most contested nexus are in the techno-secularized cities of the world. Students will focus specifically on the post-colonial conflicts and integration efforts of Muslims in the global communities, and the impact of Globalization on Islamic societies. Attention will be given to recent international clashes between globalized secularism and Muslims, various political and Christian responses and the need for a Christ-centered confident response to both Globalization and Islamization. Liberal Arts.

Prerequisite(s):MISS 360

MLT 113 Masterworks of Sight and Sound

3-WSP

Introduction of art and music from classic age to present; concert and gallery attendance included. Liberal Arts.

MLT 211 Music and Listening: An Introduction

3-F&S

Introduction to the study and enjoyment of classical masterpieces in music: recordings, outside biographical readings, reports on current musical events. Culture: Music. Liberal Arts.

MLT 450, 451, 452, 453 Brass, Woodwind, String and Percussion Literature

2-WSP

Survey of standard chamber, solo, and orchestral excerpt repertoire from the Baroque to the present. Emphasis on stylistic and interpretive traits, pedagogical issues and repertoire selection, major composers and representative works. Liberal Arts.

MLT 460 Vocal Literature

2-S

Survey of standard vocal repertoire from the High Baroque to the present. Emphasis on stylistic and interpretive traits, pedagogical issues and repertoire selection, major composers and representative works. Liberal Arts.

MLT 470 Organ Literature

2-WSP

An examination of the history of the development of the organ and its literature from the middle ages to the present. Examination of style and structure and their impact on performance. Liberal Arts.

MLT 480 Piano Literature

2-WSP

An examination of the history of the development of the piano and its literature, including music written for early keyboard instruments which today is accepted as part of the piano repertoire. Emphasis on 18th, 19th, and 20th century repertory. Examination of style and structure and their impact on performance. Chamber music with piano, concerti, solo piano literature. Liberal Arts.

MSL 101/101L Foundations of Officership (Course and Lab)

2-F

The purpose of this semester is to introduce cadets to fundamental components of service as an officer in the United States Army. These initial lessons form the building blocks of progressive lessons in values, fitness, leadership, and officership. Additionally, the semester addresses \life skills\" including fitness, communications theory and practice (written and oral), and interpersonal relationships. Upon completion of this semester, the cadets should be prepared to receive more complex leadership instruction. "

MSL 102/102L Basic Leadership (Course and Lab)

2-S

This semester builds upon the fundamentals introduced in the previous semester by focusing on leadership theory and decision-making. \Life skills\" lessons in this semester include: problem solving, critical thinking, leadership theory, followership, group interaction, goal setting, and feedback mechanisms. Upon completion of this semester, cadets should be prepared to advance to more complex leadership instruction concerning the dynamics of organizations."

MSL 201/201L Individual Leadership Studies (Course and Lab)

2-F

Building upon the fundamentals introduced in the MS-1 year, this instruction delves into several aspects of communication and leadership theory. The use of practical exercise is significantly increased over previous semesters, as cadets are required to apply communications and leadership concepts. Virtually the entire semester teaches critical \life skills\". The relevance of these life skills to future success in the Army is emphasized throughout the course."

MSL 202/202L Leadership and Teamwork (Course and Lab)

2-S

The final semester of the Basic Course focuses principally on officership, providing an extensive examination of the unique purpose, roles, and obligations of commissioned officers. It includes a detailed look at the origin of our institutional values and their practical application in decision-making and leadership to focus on a career as a commissioned officer. Upon completion of this semester, cadets should possess a fundamental understanding of both leadership and officership, demonstrate the ability to apply this understanding in real world situations, and be excited about the aspect of shouldering the responsibility of a commissioned officer in

MTH 220 Music Theory I

3-F

Basic concepts of rhythm as expressed in both western and non-western contexts, the construction and linear tendencies of melody, diatonic and non-functional harmony, elementary keyboard skills, and monophonic composition. Co-requisites: MTH 221 or permission from instructor. MTH 220 and MTH 221 together meet Culture: Music. Liberal Arts.

MTH 221 Musicianship I

1-F

Hands on development of musicianship skills through study of basic intervals, pitch collections, sight-singing, and keyboard skills. Students will regularly apply and demonstrate course skills in improvisational groups. Co-requisite MTH 220 or permission of instructor. MTH 220 and 221 together meet Culture: Music. Liberal Arts.

MTH 227 Music Theory II

3-S

Analysis and composition geared toward continued study of rhythm and melody. Introduction to basic counterpoint and extensive work in non-chromatic harmony, with continued development and application of keyboard skills. Prerequisite: MTH 220 or permission of instructor. . Co-requisite: MTH 228 or permission of

MTH 228 Musicianship II

1-S

Continued work with practical application of theoretical musical concepts. Focus on aural identification of western pitch collections (both tonal and modal). pentatonic collections, and all chromatic intervals, as well as sight-singing in those collections in various meters. Continued development of keyboard skills as well as an introduction to singing while playing. Students will regularly apply and demonstrate course skills in improvisational groups. Prerequisite: MTH 221 or permission of instructor. Co-requisite: MTH 227 or permission

MTH 325 Music Theory III

3-F

Continuing analysis, composition and arranging work using Western tonal harmony through advanced chromaticism and eighteenth-century counterpoint. Continued development of software skills. Prerequisite: MTH 227; Co-requisite: MTH 326 or permission of instructor. Liberal Arts.

MTH 326 Musicianship III

1-F

Continuing work in tonal sight-singing, ear training and dictation, through advanced chromaticism. Two class hours per week plus independent computer- and tutor-assisted instruction. Continued development of software skills. Co-requisite: MTH 325 or permission of instructor. Liberal Arts.

MTH 327 Music Theory IV

3-S

Western music of the twentieth and twenty-first centuries along with relevant materials from selected world music traditions. Development of analytical, compositional and arranging skills using these materials. Continued development of software skills. Co-requisite: MTH 328. Liberal Arts.

Prerequisite(s):MTH 325

MTH 328 Musicianship IV

1-S

Development of sight-singing, aural, and improvisational skills involving the music of the twentieth and twenty-first centuries along with relevant materials from selected world music traditions. Two class hours per week plus independent computer- and tutor-assisted instruction. Continued development of software skills. Co-requisite: MTH 327 or permission of instructor.

MTH 367 Advanced Global Musicianship

2-F&S

Capstone course of the theory sequence: Analysis, improvisation, composition, arranging and performance in a variety of Western, world and integrative musical idioms. Emphasis on structures and processes. Liberal Arts.

Prerequisite(s):MTH 327

MTH 458 Sixteenth Century Counterpoint

3-WSP

A study of the principles of counterpoint in western music with an emphasis on models from 16th century vocal polyphony. Analysis of repertoire, original compositions. Prerequisite: MTH 326 or permission. Liberal Arts.

MTH 463 Form and Analysis

3-WSP

Structural and harmonic analysis of musical form through simple and compound song form, variation, rondo, sonata forms. Contrapuntal forms of the invention, chorale prelude, fugue, canon. Study of the analysis techniques of Schenker, La Rue, and others. Liberal Arts.

MUS 180-182 Practicum in Sound and Recording

0 or 1-F/S

Hands-on training and operational experience in principles and practices of live sound and recording events for Houghton College, Greatbatch School of Music. Emphasis on proper procedures and best practices in real-world work environment. Co-requisite: employment as student worker for Live Sound and Recording Services. Can be repeated; must be taken for credit in first semester. By permission of instructor.

MUS 191, 291, 391, 491 Independent Study

1, 2, or 3-WSP

MUS 207 Introduction to Pro Tools

3-F

Introduction to Pro Tools sound & recording software. Foundational skills necessary to record, edit, and mix at basic level using a Digidesign Pro Tools system. Focus: fundamental tools and techniques through demonstrations, real-world examples, and frequent hands-on assignments. Successful completion prepares student to undertake Pro Tools 101 Digidesign Certification exam. This course has a fee. By permission of

MUS 208 Pro Tools Production I

3-S

Continued study of Pro Tools: expanding range of tools and techniques. Focus: expanded hardware and software configurations, developing versatile tools for manipulating and editing both audio and MIDI data, and implementing various techniques to facilitate larger and more sophisticated mixing scenarios, again through real-world examples and frequent hands-on assignments that will enhance your capabilities in all aspects of Pro Tools production. Successful completion prepares student to undertake Pro Tools 110 DigiDesign Certification exam. This course has a fee.

Prerequisite(s):MUS 207

MUS 219, 220 Foreign Language Diction

1/1-F/S

Basic diction facility in English, Italian, German, French. Required of voice majors and concentrations (any curriculum); elective for others. Two class meetings per week.

MUS 222- 224 Jazz Workshop (Houghton Jazz)

0 or 1-F&S

Preparation and presentation of a variety of jazz repertoire including swing, combo, and modern styles. Permission of director.

MUS 226 Flute Ensemble

0 or 1-F&S

Preparation and presentation of repertoire for flute ensemble. Permission of director.

MUS 226 Flute Ensemble

0 or 1-F&S

Preparation and presentation of repertoire for flute ensemble. Permission of director.

MUS 229 Basic Conducting

2-F&S

Basic conducting, rhythmic development, baton technique, three hours per week.

MUS 250 Music in Christian Perspective: An Introduction

2-F

Introduction to music studies in the context of Christian worldview. Examination of Biblical, philosophical, and scientific bases for human creativity. Discussion of music's role in society and in the liberal arts context. Orientation to college-level work in music, including diagnostic examination of background knowledge. Liberal

MUS 255 Brass Ensemble

0 or 1-F&S

Preparation and presentation of repertoire for brass ensemble. Permission of director.

MUS 310-314 Men's Choir

0 or 1-F&S

Major ensemble. Audition required. By permission of the director.

MUS 315-319 Women's Choir

0 or 1-F&S

Major ensemble. Audition required. By permission of the director.

MUS 320-24 College Choir

0 or 1-F; 0, 1 or 2-S

Major ensemble. Audition required. Ensemble is available for 2 credits in any semester wherein ensemble tours. By permission of the director.

MUS 329 Choral Conducting

2-S

Elements of choral conducting; training of choirs; rehearsal techniques; preparation of choral scores. Three hours per week.

Prerequisite(s):MUS 229

MUS 330 Keyboard Skills

2-F or S

Functional piano class required of piano and organ majors and concentrations within music education curricula.

Emphases: sight reading, harmonization, transposition, accompaniment, score reading, improvisation. Jury exam. Six hours weekly practice. Prerequisite: Piano level 237.

MUS 331-335 Philharmonia (Orchestra)

0 or 1-F&S

Major ensemble. Audition required. By permission of the director.

MUS 336-340 Symphonic Winds

0 or 1-F; 0, 1 or 2-S

Major ensemble. Audition required. Ensemble is available for 2 credits in any semester wherein ensemble tours. By permission of the director.

MUS 353 Lyric Theater

0 or 1-S

Preparation and presentation of operatic, musical theater, and operetta scenes and complete works from the standard repertoire. Typical four-year cycle will comprise one full opera, one full musical or operetta, one bill of one-acts or acts from major works, and one scenes production. Study of techniques of stage movement and stagecraft. Three hours in rehearsal per week; outside rehearsal required. Permission of director.

MUS 356 Voice Pedagogy

2-S15

Methods of voice production and development as preparation for teaching; emphases on teaching and evaluation. Attention to proper selection of music. Two class hours per week; junior and senior year.

MUS 395 Special Topics

1, 2, or 3-WSP

MUS 430 Instrumental Conducting

2-S

Conducting laboratory band or orchestra; methods of presenting band and orchestral materials. One and one-half hours with laboratory band or orchestra per week.

Prerequisite(s):MUS 229

MUS 430 Instrumental Conducting

2-S

Conducting laboratory band or orchestra; methods of presenting band and orchestral materials. One and one-half hours with laboratory band or orchestra per week.

Prerequisite(s):MUS 229

MUS 447 Piano Ensemble

0 or 1-F&S

Performance of keyboard ensemble repertoire, Renaissance to 20th century. Duet and multi-piano literature. Emphasis on style and special ensemble problems. Fulfills ensemble requirement for junior and senior applied piano (performance) majors. Four hours outside practice.

MUS 455 Chamber Singers

0 or 1-F

Practical experience singing in a small group of 12 to 16 performers. Three hours in rehearsal per week. Permission of director.

MUS 460 - 469 Chamber Ensembles

0 or 1-F&S

Ensembles organized to include interested students. Small groups rehearse three hours per week. Standard literature for handbells, percussion, strings, woodwinds, brass, percussion, guitar, etc., is studied with a view toward public performance during the year. Permission of appropriate ensemble director.

MUS 470 Organ Pedagogy

2-WSP

Examination of teaching methods, materials, and technical approaches for the organ. Guided teaching in private and class settings. Required for organ performance majors.

MUS 477 Piano Pedagogy

3-S

Preparation for teaching beginning & intermediate piano students. Study of beginning & intermediate piano methods and literature, including adult and preschool materials. Survey of professional organizations and publications for the private piano teacher and a study of the writings and teaching ideals of great piano pedagogues. Guidelines for development and maintenance of private piano studio. Practicum for teaching community students with presentation of a public recital at the end of the semester.

MUS 495 Internship

3, 4, 5, or 6-WSP

PERF 385 Junior Recital

0-F&S

PERF 485 Senior Capstone: Senior Recital

0-F&S

PHED 101 Fitness for Life

1-F&S

Health-related physical fitness, self-evaluation, and individualized wellness programs. Health and Wellness:

PHED 103 Adaptive Physical Education

1/1-WSP

For those who have a physical disability or are limited by lack of basic training. Health and Wellness

Prerequisite(s):PHED 101

PHED 111 Wellness Lab

0.5-F&S

Personalization of health-related fitness concepts including measurement of and exercise prescription for cardiorespiratory endurance, muscular strength and endurance, muscular flexibility, and body composition.

Health and Wellness Competency: Lab.

PHED 121 Badminton

0.5-S

Physical coordination and conditioning; basic skills; appreciation for physical activity and lifetime fitness in Christian life. Health and Wellness: Activity.

PHED 122 Beginning Ballet

0.5-WSP

Physical coordination and conditioning; basic skills; appreciation for physical activity and lifetime fitness in Christian life. Health and Wellness: Activity.

PHED 123 Canoeing

0.5-S

Physical coordination and conditioning; basic skills; appreciation for physical activity and lifetime fitness in Christian life. Health and Wellness: Activity.

PHED 124 Cross Country Skiing

0.5-S

Evaluate personal health-related physical fitness components and incorporate exercise prescription through Cross Country Skiing. Develop basic skills and an appreciation for physical activity and lifetime fitness in Christian Life. Health and Wellness: Activity.

PHED 125 Downhill Skiing

0.5-S

Physical coordination and conditioning; basic skills; appreciation for physical activity and lifetime fitness in Christian life. Health and Wellness: Activity.

PHED 126 Golf

0.5-F

Physical coordination and conditioning; basic skills; appreciation for physical activity and lifetime fitness in Christian life. Health and Wellness: Activity.

PHED 129 Table Tennis

0.5-WSP

Physical coordination and conditioning; basic skills; appreciation for physical activity and lifetime fitness in Christian life. Health and Wellness: Activity.

PHED 130 Racquetball

0.5-F&S

Physical coordination and conditioning; basic skills; appreciation for physical activity and lifetime fitness in Christian life. Health and Wellness: Activity.

PHED 131 Rock Climbing

0.5-F&S

Physical coordination and conditioning; basic skills; appreciation for physical activity and lifetime fitness in Christian life. Health and Wellness: Activity.

PHED 133 Softball

0.5-F

Physical coordination and conditioning; basic skills; appreciation for physical activity and lifetime fitness in Christian life. Health and Wellness: Activity.

PHED 135 Swimming for non-majors

0.5-F&S

Evaluate personal health-related physical fitness components and incorporate exercise prescription through Swimming. Develop basic skills and an appreciation for physical activity and lifetime fitness in Christian Life. Health and Wellness: Activity.

PHED 136 Tennis

0.5-F&S

Physical coordination and conditioning; basic skills; appreciation for physical activity and lifetime fitness in Christian life. Health and Wellness: Activity.

PHED 137 Volleyball

0.5-F

Physical coordination and conditioning; basic skills; appreciation for physical activity and lifetime fitness in Christian life. Health and Wellness: Activity.

PHED 138 Walking/Jogging

0.5-F&S

Evaluate personal health-related physical fitness components and incorporate exercise prescription through Walking/Jogging. Develop basic skills and an appreciation for physical activity and lifetime fitness in Christian Life. Health and Wellness: Activity.

PHED 139 Water Skiing

0.5-F

Physical coordination and conditioning; basic skills; appreciation for physical activity and lifetime fitness in Christian life. Health and Wellness: Activity.

PHED 140 Weight Training

0.5-F&S

Evaluate personal health-related physical fitness components and incorporate exercise prescription through Weight Training. Develop basic skills and an appreciation for physical activity and lifetime fitness in Christian Life. Health and Wellness: Activity.

PHED 141 Walking for Wellness

.5 or 1-S

Physical coordination and conditioning; basic skills; appreciation for physical activity and lifetime fitness in Christian Life. For Off Campus Program students. Health and Wellness: Activity

PHED 145 Continuing Ballet

1-WSP

Provides the student with the concepts, technique and practice that is required to advance beyond the beginning ballet level. Health and Wellness: Activity.

PHED 146 Beginning Jazz Dance

0.5-WSP

Provides beginning student with the introductory concepts and proper classical technique necessary to participate and appreciate the art of jazz dance. Health and Wellness: Activity.

PHED 147 Soccer

0.5-F

Physical coordination and conditioning; basic skills; appreciation for physical activity and lifetime fitness in Christian life. Health and Wellness: Activity.

PHED 148 Continuing Jazz Dance

1-WSP

Physical coordination and conditioning; basic skills; appreciation for physical activity and lifetime fitness in Christian life. Health and Wellness: Activity.

PHED 191, 291, 391, 491 Independent Study

1, 2, 3, or 4-WSP

PHED 208 First Aid/CPR/AED

0.5-F&S

Basic understanding of lifesaving techniques relative to first aid and cardiopulmonary resuscitation. The course is taught via instructional videos and by the practice of several emergency procedures on human subjects and manikins per standards established by the American Red Cross. (No Integrative Studies credit.)

PHED 212 Foundations of Physical Education and Health

2-F14

Basic philosophical principles, history, scientific foundation, and contemporary significance of physical education and health education; educational aims and objectives; physical education/health education in the modern school curriculum.

PHED 220 Adventure Sports Mayterm (Activity Lab)

3 or 4-May

Experiential learning of a variety of adventure sports (backpacking, climbing, mountain biking, kayaking/ rafting) in canyons of the Adirondack or Rocky Mountain regions; teaching experience and leadership development, fitness training for lifetime benefits; personal and spiritual growth; environmental stewardship; principles of aerobic conditioning; developing training programs. Health and Wellness: Activity.

PHED 222 Traditional Gymnastics II (Activity Lab)

1-WSP

Olympic-style progressions for floor exercise and all apparatus, enhance performance base established in Educational Gymnastics; develop confidence and proficiency with techniques; professional involvement. Permission from instructor.

PHED 225 Teaching Elementary Physical Education

2-F15

Student development and learning styles, teaching methods, analysis of one's own teaching, classroom management, evaluation of students' performance, and preparation of curriculum, unit, and lesson plans for the elementary level. Fifteen hours of field experience required as part of PHED 235.

PHED 227 Sports Ministry: The Integration of Faith and Sport

4-S15

Students will develop an understanding of the sports culture and will learn how the gospel can be effectively communicated within this context. They will consider sociological factors, historic developments and the Biblical text in order to build a theological foundation for the practice of sports ministry. Church and parachurch organizations will be examined as well as evangelism and discipleship methodologies. Students will practice communication skills within sports ministry settings.

PHED 228 Lifeguarding (Activity Lab)

1-May

Preventive lifeguarding, basic skills, emergency plans, search and recovery techniques, legal responsibilities, pool operations, and record keeping. Prerequisites: 15 years of age or older, 500 yards continuous swim, strong swimming skills. Health and Wellness: Activity.

PHED 229 Educational Gymnastics and Movement Foundations

2-S15

Introduction to teaching gymnastics in a K-12 curriculum; floor exercise, tumbling, basic skills for limited apparatus; routine development; safety and spotting; conceptual approach to human movement; techniques for dealing with force, time and space, and flow as they relate to movement; the use of lead-up experiences, skills, and rhythms in games; teaching methods. Health and Wellness: Activity.

PHED 230 Aquatics

2-S

Review and refinement of swimming strokes, diving form, and water safety skills to a level adequate to obtain swimming instruction certification. Exploration of methods of instruction for swimmers of all ages and abilities. Prepare lesson plans and teach community swim lessons. Preventive lifeguarding, basic skills, emergency plans, search and recovery techniques, legal responsibilities, pool operations, and record keeping. Prerequisites: 15 years of age or older, 500 yards continuous swim, strong swimming skills. Concurrent registration with PHED 308 unless otherwise approved. Health and Wellness: Activity.

PHED 232 Epidemiology

2-15-May

This course will study the cause and transmission of human diseases within a population relating not only to the infectious agent but also the genetic makeup of the community and the social, behavioral, economic and cultural factors of the people affected. Lectures will address the history of public health and epidemiology including cost/benefit analyses, public health policy, and the implications of case reporting to the CDC and local public health departments. The basic principles of the science of epidemiology, with an emphasis on identifying patterns and formulating testable hypotheses to the disease outcome, understanding the types of epidemiological studies, clinical and community trials and the essential biostatistics involved in any experimental design will be addressed. Does not count for major or minor credit in biology.

PHED 235 Elementary Teaching: Practicum I

0.5-F&S

Meets one day per week in the elementary setting at the same time as scheduled for the Teaching Elementary PE course. Focus on observing children and the learning environment, assisting the classroom teacher with daily routines, and supporting the learning of individual children. Increased responsibilities as the semester progresses including planning and teaching lessons under the guidance of the classroom teacher. Placement will switch half way through the semester.

PHED 237 Holistic Health

4-F14

Lifetime health and well-being, interpersonal relationships, and current issues. Topics include stress, human sexuality, mental health, substance use and abuse, death and dying, personal safety, and fitness and nutrition. Field experience required. Health and Wellness: Theory.

PHED 246 Care, Prevention, and Management of Athletic Injuries

2-F

Introduction to the principles of prevention of athletic injuries and managing injuries when they occur. Students will develop an understanding of common injuries, illness, and disorders of the head, trunk, and extremities. Includes techniques and philosophies of taping, wrapping, padding and bracing for prevention, management and treatment of athletic injuries.

PHED 247 Recognition and Evaluation of Athletic Injuries

4-S

Pathology and evaluation of most common injuries/conditions found in the lower and upper extremities (i.e., ankle, knee, shoulder). History; observation; palpation; active and passive range of motion; muscle, neurological, and functional testing; and postural assessment. Prerequisite: PHED 246 or permission of the

PHED 248 Inclusive Physical Education (Activity Lab)

2-WSP

Physical and psychological aspects of illness and disabilities within context of physical activity. Evaluation of the individual and prescription of appropriate activity. Survey of legal aspects. Fifteen hours of field experience required as part of PHED 249. Prerequisites: Courses listed below or permission of the instructor.

PHED 249 Inclusive Physical Education Practicum

0.5-F&S

Meets one day per week in the inclusive physical education setting at the same time as scheduled for the Inclusive Physical Education course. Focus on observing children and the learning environment, assisting the classroom teacher with daily routines, and supporting the learning of individual children. Increased responsibilities as the semester progresses including planning and teaching lessons under the guidance of the

PHED 253 Teaching Track and Field

1-May

Basic understanding of skills and teaching methods for selected track and field events including high jump, long jump, triple jump, sprint mechanics, hurdling, sprint starts, relays, shot-put, and discus. Students will examine preparatory activities, drills, mechanical analysis of skills and unit and lesson planning; principles of aerobic conditioning; and developing training programs. Students will also help organize and run a local track and field

PHED 254 Teaching Net/Wall/Target Sports (Activity Lab)

2-F14

Basic understanding of skills and teaching methods for selected net, wall, and target sports including badminton, golf, racquetball, tennis, and volleyball. Students will examine preparatory activities, drills, mechanical analysis of skills, and unit and lesson planning; principles of aerobic conditioning; developing

PHED 255 Teaching Team Passing/Striking/Fielding Sports (Activity Lab)

2-F15

Basic understanding of skills and teaching methods for selected team passing, striking, and fielding sports including basketball, flag football, soccer, softball, and team handball. Students will examine preparatory activities, drills, mechanical analysis of skills, and unit and lesson planning; principles of aerobic conditioning; developing training programs.

PHED 256 Cooperative Games (Activity Lab)

1-WSP

Basic understanding of skills and teaching methods for encouraging the growth and development of skills in leadership, cooperation, and teamwork. Students will examine activities and systems of instruction that promote the development of these skills in their physical education classes.

PHED 275 Methods & Administration of Sports Ministry

2-S16

Students will evaluate sports ministry strategies within local church, parachurch, mission and educational settings. They will review and develop curriculum and programs for use within these settings. Students will develop communication skills for a sports audience and will examine evangelism and discipleship methods.

PHED 281 Pre-Physical Therapy Field Experience I

2-F

Mastery of competencies in injury prevention, recognition, and assessment; taping and bracing techniques; understanding of the lower extremity; and medical documentation. Requires 25 hours of observation in each of three settings: orthopedics, pediatrics, and geriatrics, with an additional 25 hours assisting with rehabilitation in the Houghton College training room. (Hours logged prior to taking this class may count with instructor's pre-approval.) Pre-PT majors only. Co-requisite: PHED 247.

PHED 290 Sociology of Sport

3-WSP

Sport as a social institution and microcosm of society. Topics: socialization into and via sport; social stratifications; sport and gender, race, economics, politics, religion, social change, education.

PHED 295, 395, 495 Special Topics

1, 2, 3, or 4-WSP

Depending on interest, demand and faculty availability and expertise courses will be offered to allow students to consider issues and aspects of physical education not covered in other courses.

PHED 302 Teaching Secondary Physical Education

2-F14

Student development and learning styles, teaching methods, analysis of one's own teaching, classroom management, evaluation of students' performance, and preparation of curriculum, unit and lesson plans for the secondary level. Fifteen hours of field experience required as part of PHED 303.

PHED 303 Secondary Teaching: Practicum II

0.5-F&S

Meets one day per week in the secondary setting at the same time as scheduled for the Teaching Secondary PE course. Focus on observing children and the learning environment, assisting the classroom teacher with daily routines, and supporting the learning of individual children. Increased responsibilities as the semester progresses including planning and teaching lessons under the guidance of the classroom teacher. Placement will switch half way through the semester.

PHED 305 Sports Ministry Field Practicum

2-M&S15

A supervised field experience in a sports ministry setting: church, camp, mission organization or parachurch sports ministry. The student will relate theory to practice through a cooperative learning relationship between the ministry organization, student and advisor.

PHED 306 Principles of Coaching and Sport Management

4-S

Principles and techniques of coaching, systems used in coaching, and the development of a coaching system. An in-depth study of the athlete, the coach, and the team as a group. Theories, philosophy, and systems of management; program development, finance, purchasing and care of equipment, public relations, facility and personnel management, and legal liability.

PHED 308 First Aid and Safety

2-S

Gives students the knowledge and skills necessary to administer first aid in a reasonable and prudent manner. American Red Cross, First Aid-Responding to Emergencies and CPR/AED for the Professional Rescuer certification will be given upon satisfactory completion of all requirements. This course has a fee.

PHED 310 Organization of School Health

4-F15

Examination of philosophical, theoretical, and practical aspects of health education curriculum. Addresses the processes and issues associated with planning, implementing, and organizing a coordinated school health program in accordance with national and state guidelines. Field experience required.

PHED 320 Measurement and Evaluation in Physical Education

2 or 4-F15

Modern theories and practices in evaluation of knowledge, attitudes, and skills. Construction of both written and practical tests to measure the various aspects included in physical education. Use of descriptive and inferential statistics.

PHED 325 Fitness Assessment and Evaluation

2-WSP

Practical application and fundamental understanding of measurement techniques associated with the field of fitness and fitness testing. Use of descriptive and inferential statistics in proposing and conducting research and in understanding relevant material from the field.

PHED 330 Physiology of Exercise

4-S

The analysis of the physiological changes that occur in the body during exercise, after exercise, and during a training period. Prerequisites: Courses listed below or permission of instructor. Health and Wellness: Theory and Lab. This course has a fee.

PHED 341 Kinesiology

4-F

The analysis of the musculoskeletal system and its interrelationship with human movement. Prerequisites: Courses listed below or permission of instructor. This course has a fee.

PHED 347 Therapeutic Modalities

2-S16

To promote an understanding of the indications, contraindications, applications, and physiological effects of various therapeutic modalities and manual techniques used in rehabilitation of injuries.

Prerequisite(s): PHED 246

PHED 348 Therapeutic Exercise Management of Injuries

2-S15

Mechanisms, signs, symptoms, immediate and long-term rehabilitation procedures for injuries affecting extremities and axial skeleton. Rehabilitation procedures focus on range of motion activities, joint mobilization, open vs. closed kinetic chain activities, therapeutic exercises and equipment.

Prerequisite(s): PHED 246

PHED 350 Health and Physical Fitness for Senior Adults

2-WSP

Holistic health and wellness of adults 55 years and older. Emphases: physical fitness, program planning, development, evaluation; principles and practices of leadership.

PHED 381 Pre-Physical Therapy Field Experience II

2-S

Mastery of competencies in injury prevention, recognition, and assessment; taping, and bracing techniques; understanding of the back, and upper extremity; and developing rehabilitation programs. Requires 25 hours of observation in each of three settings: orthopedics, cardiac, and neural rehabilitation with an additional 25 hours assisting with rehabilitation in the Houghton College training room. (Hours logged prior to taking this class may count with instructor's pre-approval.) Pre-PT majors only. Pre-/Co-requisite: PHED 348.

Prerequisite(s): PHED 281

PHED 405 Student Teaching in Physical Education K-6

6-F&S

Taken concurrently with PHED 407 and 411. Students must also register for EDUC 203 and 204.

PHED 406 Student Teaching in Physical Education/Health Education K-6

6-F&S

Taken concurrently with PHED 408 and 412. Students must also register for EDUC 203 and 204.

PHED 407 Student Teaching in Physical Education 7-12

6-F&S

Observation and teaching in elementary and secondary programs. Off-campus assignment under the direction of skilled teachers. Senior year. Note: see Educ. Dept. policy on "Employment and Activities While Student Teaching." Student must have overall GPA of 2.7. Taken concurrently with PHED 405 and 411. Students must also register for EDUC 203 and 204.

PHED 408 Student Teaching in Physical Education/Health Education 7-12

6-F&S

Observation and teaching in elementary and secondary programs. Off-campus assignment under the direction of skilled teachers. Senior year. Student must register for PHED 412 concurrently. Note: see Educ. Dept. policy on "Employment and Activities While Student Teaching." Student must have overall GPA of 2.7. Taken concurrently with PHED 406 and 412. Students must also register for EDUC 203 and 204.

PHED 411 Issues Seminar in Physical Education

2-F&S

Critical analysis and synthesis of student teaching experience and of crucial issues in education. Taken concurrently with PHED 405 and 407. Students must also register for EDUC 203 and 204.

PHED 412 Issues Seminar in Physical Education/Health Education

2-F&S

Critical analysis and synthesis of student teaching experience and of crucial issues in education. Taken concurrently with PHED 406 and 408. Students must also register for EDUC 203 and 204.

PHED 415 Senior Capstone for Non-Certification: Issues Seminar

2-WSP

Analysis and synthesis of current issues or relevant topics of interest related to the discipline. Includes individual or group research on the chosen area and formal presentation of the research.

PHED 496 Honors in Physical Education

4-WSP

PHED x95 ST: Advanced Concepts of Personal Training

4-May-WSP

This course is designed to prepare students with the knowledge, skills, and competence to conduct fitness assessments and to design exercise programs for various populations. Students will gain practical experience related to healthy fitness management programs and will learn safety techniques and basic sports nutrition. This course will prepare the students to take the National Council on Strength and Fitness (NCSF) personal

PHIL 191, 291, 391, 491 Independent Study

2 or 4-WSP

Liberal Arts.

PHIL 202 Metaphysics, Morality, and Mind

4-F&S

Critical analysis of the contours of a world and life view coupled with more detailed critical analysis of perennial and foundational issues in epistemology (the nature of truth and knowledge), metaphysics (the nature of reality: persons, the world, and God), and ethics (the nature of goodness and the process of ethical decision making, with close attention to character - virtue and vice - and the foundations of morality). Culture: Philosophy. Liberal

PHIL 203 Theism, Naturalism and the Sciences

4-F

Detailed critical analysis of foundational issues in epistemology (how we know), metaphysics (the nature of reality), and ethics (character and values), with particular attention to methodological issues pertaining to the sciences, the nature and contours of a worldview, and the relationship between worldviews and the sciences. Reserved for Science Honors students. Culture: Philosophy. Liberal Arts.

PHIL 222 Logic and Critical Thinking

4-S14

Introduction to basic argument analysis and informal fallacies, inductive and deductive argument forms, including the formal languages of modern philosophical logic, such as truth functional propositional logic, predicate logic, and some modal logic. Liberal Arts.

PHIL 230 Philosophy in Film

3 or 4-May

Introduction through texts and film to philosophical reflection on foundational questions in metaphysics (the nature of reality), morality, and epistemology (the nature of knowledge, or the link between the mind and realities outside the mind, otherwise known as "the external world"). This course introduces philosophical reflection through a close examination of several films that illustrate the challenges of issues such as skepticism and relativism, the nature of personal identity, the possibility of moral responsibility, the problem of evil, and the meaning of life. Culture: Philosophy. Liberal Arts.

PHIL 243 Ancient Philosophy

4-F13

Survey of history of ideas from the ancient Greeks through the end of the classical period. Primary and secondary source readings by (or about) major figures such as the Pre-Socratics, Socrates, Plato, Aristotle, Hellenistic thinkers (Epicureanism, Stoics, and Skeptics), the Church Fathers & Neo-Platonists. Considers major trends in metaphysics, epistemology & ethics. Culture: Philosophy. Liberal Arts.

PHIL 244 Medieval Philosophy

4-S14

Survey of history of ideas from the end of Classical period through the early Renaissance. Includes primary sources by major figures such as Augustine, Anselm, Islamic Philosophers (Alfarabi, Avicenna, Averroes), Bonaventure, Aquinas, Scotus and Ockham. Consideration of major trends such as faith and reason, realism and nominalism, creation, & religious language. Culture: Philosophy. Liberal Arts.

PHIL 245 Early Modern Philosophy

4-F14

Survey of the history of ideas from the Late Renaissance through the Eighteenth Century. Includes primary and secondary sources by (or about) major (and some minor) figures, such as Machiavelli, Montaigne, Descartes, Leibniz, Locke, Spinoza, Berkeley, Hume, Reid and Kant. Considers major movements such as continental rationalism, British empiricism, and natural law and moral sense traditions in ethics and politics. Culture:

PHIL 246 Late Modern and Contemporary Philosophy

4-S15

Survey of the history of ideas from the Late Modern Period (post-Kantian European philosophy) through the present. Includes primary and secondary sources by (or about) major figures such as Hegel, Mill, Marx, Kierkegaard, Nietzsche, Husserl, Peirce, James, Dewey, Russell, Moore, Wittgenstein, Sartre, Quine, Rawls, Foucault, Derrida, Rorty, Pragmatism, Positivism and Postmodernism. Culture: Philosophy. Liberal Arts.

PHIL 250 Aesthetics

2-WSP

A philosophical study of art and aesthetic experience focusing on the value of art for human life, rather than the more narrow (and less useful) question of the definition of art. Explores the relative importance to a normative theory of art of such values as pleasure, beauty, expression of emotion, and understanding, and examines how these values can be embodied by various art forms, such as visual art, music, literature, the performing arts (dance and theater), and architecture. Liberal Arts.

PHIL 260 Introduction to Political Thought

4-F14

Introduces students to Western political thought from the ancient to the modern world through a close reading of important thinkers. By considering problems of community, obligation, order, justice, liberty, and freedom, the course equips students for careful normative reflection on public life. Liberal Arts.

PHIL 290, 390, 490 Special Topics

2 or 4-WSP

Examination of specific movements or particular problems in philosophy, or themes in the history of ideas. Liberal Arts.

PHIL 300 Christianity, Postmodernism, and Beyond

4-F (odd years)

Explores relationship between Christian faith and practice and postmodern culture. Primary & secondary readings drawn from a variety of disciplines and sources explore the implications of postmodernism for church, individuals, the media & popular culture. Liberal Arts.

PHIL 306 Varieties of Postmodernism

3-May, WSP

Interdisciplinary analysis of the many faceted cultural phenomenon known as "postmodernism." Moves from an initial starting point considering postmodernism as a reaction to various philosophical claims associated with modernity to the meaning and significance of postmodern ideas as they have been transposed into a variety of other contexts in the analytic humanities, literature, arts and sciences. Liberal Arts.

PHIL 322 Philosophy of Law

2-F or S

Introduction to fundamental issues surrounding the concept of law, such as the debate between natural law theorists (who maintain that there is a law above human law) and legal positivists (who deny this), as well as issues such as punishment and the basis of the legitimacy of legislative authority. Liberal Arts.

PHIL 330 Medical Ethics

2-F14

Introduction to contemporary medical ethics, analyzing case studies and philosophical essays on a variety of dilemmas in contemporary medical practice, such as truth-telling and confidentiality, research ethics, reproductive technologies, abortion and embryonic stem-cell research, euthanasia, and physician-assisted suicide. Service in a local health-care setting also possible as a supplement to the course (for additional credit).

PHIL 340 The Nature of God

2-F

Introductory course in philosophical theology, focusing on the concept of God. Philosophical analysis of divine attributes (such as God's power, knowledge, goodness, and relation to time). Liberal Arts.

PHIL 350 Reason and Religious Belief

2-F

Introductory course in religious epistemology, focusing on the sources of religious knowledge and the rationality of religious belief. Philosophical analysis of arguments for God's existence, the problem of evil, and the roles of faith and reason in religious belief. Liberal Arts.

PHIL 360 History and Philosophy of Science

4-WSP

Survey of the rise of western science from its origins in antiquity to the present, addressing both the content and methods of science in each major period. Major figures considered include Aristotle, Galen, Copernicus, Kepler, Galileo, Descartes, Boyle, Newton, Lavoisier, Darwin, and Einstein. A wide range of science fields will be surveyed and specific attention is given throughout to the interrelationships between science and other disciplines, the relationship between science and culture, and the interaction of science and religion. Liberal

PHIL 395 Philosophy Colloquium

1-F/S

A required seminar for philosophy majors, expected during the junior year. The seminar is co-located with PHIL 495 and helps prepare students for the Senior Capstone experience the following year. Repeatable. Liberal

PHIL 414 Major Figures

2 or 4-WSP

In-depth study of the thought of one or more figures with an emphasis on critical analysis and evaluation of primary source material. Liberal Arts.

PHIL 435 Ethical Theory

4-F13

Analysis of traditional normative theories (formalism, consequentialism, and virtue ethics) through the reading of primary sources. Also explores developments in contemporary moral theory. Liberal Arts.

PHIL 445 Religious Epistemology

4-WSP

Seminar examining the epistemology of religious belief via close reading and discussion of historical and contemporary works. Touches on topics such as the rationality of religious belief, theistic arguments (for God's existence), the problem of evil (and atheistic arguments generally), and faith and reason. The specific issue(s) to be considered will be identified each time the course is scheduled. Repeatable when the topics are

PHIL 455 Aquinas

4-F13

Seminar on the thought of Thomas Aquinas involving a close reading of Aquinas's most important work, the *Summa Theologiae*, with occasional supplementation from other relevant primary and secondary literature. Liberal Arts.

PHIL 465 Nietzsche

2 or 4-WSP

Seminar on the thought of Friedrich Nietzsche involving a close reading of several of his major works and discussion of his continuing influence on Western thought and culture. (When offered for 4 hours may include consideration of works by other influential atheistic philosophers, such as David Hume, Bertrand Russell, or Jean Paul Sartre.) Liberal Arts.

PHIL 475 Kierkegaard: A Man for All Disciplines

4-(WSP)

Reading seminar on some key works of the "melancholy Dane," including (for example) Either/Or, Fear and Trembling, The Sickness Unto Death, the Philosophical Fragments and Concluding Unscientific Postscript. A "man for all disciplines," Kierkegaard's writings continue to attract interest for their philosophical and theological insight as well as their literary sophistication. Liberal Arts..

PHIL 485 Issues in Philosophical Theology

4-S15; S17

Seminar in which selected topics in Christian theology are examined via close reading and discussion of historical and contemporary works of philosophical theology. Examples of topics considered: Divine Attributes, Divine Providence (and Human Freedom), God and Ethics, Faith. The specific issue(s) to be considered will be identified each time the course is scheduled. Repeatable when topics are diverse. Liberal Arts.

PHIL 495 Senior Capstone: Philosophy Colloquium

2-S

A required capstone seminar for philosophy majors normally completed in one of the final two semesters of the student's college experience. Prerequisite: A minimum of 18 hours in philosophy. May only be taken once for credit. Liberal Arts.

PHIL 496 Honors in Philosophy

4-S

Liberal Arts.

PHYS 102 General Astronomy

4-F

A survey of modern astronomy with emphasis on the structure and dynamics of stars, galaxies and the universe. Current theories of cosmic origins. 6 classroom hours with lab per week. Lab Science or 2nd Science. Liberal Arts.

PHYS 130 How Things Work

4-F

Introduction to the science behind a variety of modern technological advancements. Possible topics may include rockets, musical instruments, plasma screens, hybrid automobiles and nuclear reactors. The physical principles relevant to each technology will be explored. 6 classroom hours lecture with lab per week. Lab science or 2nd science. Liberal Arts.

PHYS 140 Physics of Music

2-May, 16

This course will focus on the physics of various phenomena associated with music. A quantitative, mathematical approach will be used, and students will apply the methods of science to gain a greater understanding of music. Topics will include harmonics, frequency and tone, overtones, spectral analysis and the physics of scales. 2nd Science. Liberal Arts.

PHYS 151 General Physics I

4-F

Introduction to physics focusing on central concepts and problem solving. Topics: mechanics, energy and waves. 6 hours lecture with lab/week. Prerequisite: Course listed below or evidence of adequate math preparation. Lab Science or 2nd Science. Liberal Arts.

PHYS 152 General Physics II

4-S

Introduction to physics focusing on central concepts and problem solving. Topics: thermodynamics, electricity, magnetism, optics and modern physics. 6 hours lecture with lab/week. Liberal Arts.

Prerequisite(s):PHYS 151

PHYS 212 Modern Physics

2-F14

Exploration of the implications of Special Relativity using the Lorentz transformation and conceptual introduction to General Relativity. Elementary quantum mechanics using the Schrödinger equation applied to atoms, molecules, solids, nuclei, and elementary particles. 3 lecture hours/week. Liberal Arts.

Prerequisite(s):PHYS 152

PHYS 215 Statics & Engineering Design

4-S16

Introduction to engineering design in the context of the basic mechanics of static structures and machines. Topics: multidimensional vector analysis of particles and rigid bodies in equilibrium, structural analysis of trusses and frames, friction, center of gravity, and moment of inertia. Introduction, by design project, to topics of technical drawing using CAD software, MATLAB, and machine shop skills. 3 lecture & 3 lab hrs/week. Liberal Arts.

Prerequisite(s):PHYS 151

PHYS 251 Mechanics I

4-F14

A development of classical Newtonian mechanics focusing on the dynamics of particles and rigid bodies in one, two, and three dimensions. Topics covered will include work and energy, central forces, collisions, non-inertial frames of reference, and oscillations. Co-requisite: MATH 241. Liberal Arts.

PHYS 258 Analog Electronics

4-S15

A study of analog circuits comprised of resistors, capacitors, inductors, op-amps and DC and AC voltage and current sources. Methods of analyses: Kirchoff's Laws, node/mesh, network theorems, bode plots, Laplace transforms, two-port networks. Some software tools explored. 3 lecture & 3 lab hrs/week. Co-requisite: MATH

Prerequisite(s):PHYS 152

PHYS 259 Digital Electronics

4-F15

An introduction to digital circuits including Boolean algebra, logic gates, Karnaugh maps, decoders, flip-flops, registers, microcomputers, and interface devices. Characteristics and operation of digital integrated circuits will be covered. Some software tools will also be explored. 3 lecture and 3 laboratory hours each week. Liberal Arts
Prerequisite(s):PHYS 152

PHYS 260 Optics

4-WSP

Introduction to the study of light. Topics from geometrical optics, such as optical system analysis and aberration theory, and topics from physical optics, including interference, diffraction, and Fourier optics. Special topics from quantum optics will also be included. 3 lecture & 3 lab hrs/week. Co-requisite: MATH 241. Liberal Arts.

PHYS 275 Experimental Physics Laboratory

1-F14

Selected experiments in mechanics, electricity and magnetism, and modern physics. Liberal Arts.

PHYS 276 Experimental Physics Laboratory

1-S15

Selected experiments in mechanics, electricity and magnetism, and modern physics. Liberal Arts.

PHYS 295, 395, 495 Special Topics in Physics

Introduction to areas of physics not treated in other courses. Liberal Arts.

PHYS 352 Mechanics II

4-S15

Newton's Laws and conservation laws will be reviewed, followed by an examination of Hamilton's Principle and the Lagrangian formulation of mechanics. Using these tools, topics such as central force motion, dynamics of systems of particles and rigid bodies, and coupled oscillations and normal modes will be explored.
Prerequisite(s):PHYS 251

PHYS 353 Electricity and Magnetism I

4-F15

An introduction, with applications, to the classical theory of electric and magnetic fields. The course will begin with an overview of vector calculus for electromagnetic theory and will develop Maxwell's equations. 3 lecture hrs/week. Co-requisite: MATH 321. Liberal Arts.
Prerequisite(s):PHYS 152

PHYS 354 Electricity and Magnetism II

4-S16

An examination of the role of special relativity in electromagnetic phenomena. Maxwell's equations introduced in a relativistic manner, and used to investigate the properties of electromagnetic waves. Includes techniques for solving the equations of Laplace and Poisson in electrostatics. Co-requisite: MATH 261
Prerequisite(s):PHYS 353

PHYS 355 Thermal Physics

4-S16

Analysis of laws of thermodynamic equilibria in solid, liquid, and gaseous phases; introduction to statistical mechanics in terms of the microcanonical, canonical and grand canonical ensembles. Liberal Arts.

PHYS 356 Quantum Mechanics

4-S15

Modern quantum mechanics with an emphasis on matrix methods. Topics to be covered include time evolution of wave functions, harmonic oscillators, angular momentum, central potentials, the hydrogen atom and perturbation theory. Co-requisites: MATH 261 recommended. Liberal Arts.

PHYS 391, 392, 491, 492 Independent Study

Liberal Arts.

PHYS 393 Summer Collaborative Research in Physics

1, 2, 3, or 4-Summer

Research in collaboration with a physics faculty member focusing on a current area of physics research. Students work individually or in small teams reviewing literature, designing and building apparatus, collecting and analyzing data, and describing their work in written form. This course usually involves travel to other laboratories such as Los Alamos National Laboratory or Cornell University. May be repeated for credit. Prerequisite: permission from instructor. Liberal Arts.

PHYS 471 Physics Project Laboratory

1-F

Participation with a faculty member in an individual research project. May be repeated for credit. Liberal Arts.

PHYS 472 Physics Project Laboratory

1-S

Participation with a faculty member in an individual research project. May be repeated for credit. Liberal Arts.

PHYS 482 Senior Capstone: Physics Seminar

1-S

Written and oral presentation of work completed in PHYS 471/472 (for Physics BS) or on a topic of current interest in physics journals (for Physics BA). Liberal Arts.

PHYS 496 Honors in Physics

4-WSP

Liberal Arts.

POLS 191, 291, 391, 491 Independent Study

1, 2, 3, or 4-WSP

Liberal Arts.

POLS 205 In Search of Justice

4-F/S

How do we do justice and avoid injustice through political activity? We explore the possibilities and pitfalls of the search for justice by considering classic theories of justice, studying citizen action and the policy process, and examining case studies of specific issues such as health care, same-sex marriage, human trafficking, or other issues of current concern. Community: Political Science. Liberal Arts.

POLS 212 Social Science Research Methods

4-S

Basic scientific method, application to social phenomena; procedures and methodological problems in various types of social research; methods of data analysis. Liberal Arts.

POLS 220 The American Political System

4-S

The foundation course in American politics. Focuses on the basic design of the American political system, including constitutionalism, federalism, and the separation of powers, with special attention to the Founding principles as explained in the Federalist. Additional topics can include political parties, elections, Congress and the President, bureaucracy, the judiciary, and state and local government. Liberal Arts.

POLS 227 Governing Rural Communities

4-WSP

A study of local governance and politics in a rural context, exploring town, county, and regional perspectives with an emphasis on policy analysis and civic engagement. Includes a fieldwork component combining research and service learning. Liberal Arts.

POLS 230 Introduction to International Relations

4-WSP

Development of the international system of nation-states; effects of system structure and intrastate elements on international relations; concepts such as power, balance of power, sovereignty, interdependence, and issues such as foreign policy decision making, causes of war, and nuclear arms control. Liberal Arts.

POLS 240 Comparing Nations

4-WSP

Comparative basis for understanding similarities and differences in political systems around the world, focusing on Europe and Asia. Typical issues: historical development, ideology, political parties, interest groups, government, and domestic and foreign issues. Liberal Arts.

POLS 260 Introduction to Political Thought

4-F

Introduces students to the tradition of Western political thought from the ancient to the modern world through a close reading of important thinkers. By considering problems of community, obligation, order, justice, liberty, and freedom, the course equips students for careful normative reflection on public life. Liberal Arts.

POLS 270 Introduction to Public Policy

4-WSP

An introduction to the nature of public problems and the diverse ways in which governments respond. Includes concepts and methods of policy analysis, legal instruments of public policy, legislation and its implementation, the work of public agencies at various levels of government, and the role of the courts in the policy process. Illustrated by cases drawn from a range of policy areas, such as the environment, education, health-care, transportation, and housing. Liberal Arts.

POLS 295, 395, 495 Special Topics in Political Science

4-WSP

According to demand and interest, courses will be offered on a range of topics in any area of political science. Liberal Arts.

POLS 295H ST: East Meets West Honors Political Science

3-F15

Completion of the political science component of 2014-2015 East Meets West; reserved for students in that curriculum. Community: Political Science. Liberal Arts.

Prerequisite(s):INTS 153

POLS 295H ST: East Meets West Honors Political Science

3-F15

Completion of the political science component of the 2014-2015 East Meets West; reserved for students in that curriculum. Community: Political Science. Liberal Arts.

Prerequisite(s):INTS 153

POLS 322 Philosophy of Law

2-F or S

Introduction to fundamental issues surrounding the concept of law, such as the debate between natural law theorists (who maintain that there is a law above human law) and legal positivists (who deny this), as well as issues such as punishment and the basis of the legitimacy of legislative authority. Liberal Arts.

POLS 325 Executive Power and the Presidency

4-WSP

Careful study of the nature of executive power and its embodiment in the American presidency. Focuses on the executive's role in our constitutional order and changes in that role over the course of America's political development. Liberal Arts.

POLS 328 Governing Urban Communities

4-WSP

A study of local governance and politics in an urban context, exploring neighborhood, citywide, and metropolitan levels of organization with an emphasis on policy analysis and civic engagement. Includes a fieldwork component in Buffalo combining research and service learning. This course has a fee. Liberal Arts.

POLS 336 American Foreign Policy

4-WSP

Formulation and execution of U.S. foreign policy, especially since WWII. Special attention to foreign policy strategies in light of different conceptions of vital interests, threats to these interests, and appropriate

POLS 345 Community Organization and Development

4-WSP

A comparative study of how local communities organize themselves to manage natural resources and provide collective goods and sources, with a focus on developing countries. Considers issues related to decentralization and sustainable development. Emphasis on analytic approaches to problem-solving. Liberal Arts.

POLS 346 Governance and Development

4-F15

A study of patterns of governance and politics typical of developing countries with an emphasis on relationships between governance and development. Liberal Arts.

POLS 362 Loyalty

4-WSP

Careful consideration of the meaning, origin, objects, and limits of loyalty, with special attention to its political manifestations. Draws on a wide range of philosophical, political, legal, theological, and literary sources.

POLS 364 The Roots of Conservatism

4-WSP

Examines the origins of contemporary conservatism in the thought of three influential early modern thinkers: Edmund Burke, Adam Smith, and David Hume. Comparisons throughout with contemporary versions of conservative thought. Liberal Arts.

POLS 368 Aristotle

4-WSP

An introduction to fundamental political concepts by means of a careful study of the Ethics and Politics of Aristotle. Topics considered include the nature of political science, the relation between ethics and politics, community, justice, equality, law, constitutionalism, property, citizenship, conflict, institutional design, different regime types, the purposes of political life, and the relation between empirical and normative

POLS 375 Immigration and Citizenship

4-WSP

Course explores the question, what does it mean to be a member of a political community? And how does one become a member? Typically considers historical development of American immigration and citizenship policy; philosophical analyses of citizenship and the right of movement; problems of integration and diversity; comparative policy analysis; and the role of citizenship in a changing world. Liberal Arts.

POLS 393 Field Experience (Internship)

1, 2, 3, or 4-WSP

Supervised participation in executive, legislative, judicial, or legal offices in local, state, or federal government when deemed suitable for academic credit and approved by the political science advisor and the chair of the Department of History and Political Science. Usually four hours of credit may be counted toward the major or minor. May be combined with an additional four hours of credit for POLS 391 Independent Study. Liberal Arts.

POLS 427 Constitutional Law I: Structures and Powers of Government

4-F

First half of the constitutional law sequence. Focuses on government structure and powers, including judicial review, the separation of powers, and federalism. May be taken independently of Constitutional Law II. Liberal

POLS 428 Constitutional Law II: Civil Rights and Liberties

4-S

Second half of the constitutional law sequence. Focuses on civil rights and liberties, especially issues dealing with the Bill of Rights and equal protection. Constitutional Law I is not a prerequisite. Liberal Arts.

POLS 429 Religion and the Constitution

4-S

Examines constitutional debates surrounding the “first freedom”, religious liberty. In the context of different theories of the proper relationship between church and state, we examine First Amendment cases involving the establishment and free exercise clauses, as well as relevant privacy issues such as abortion and euthanasia. Liberal Arts.

POLS 437 International Law and Organization

4-WSP

Introduces students to the fields of international law and international organization. Heavy emphasis on reading, analyzing, and briefing international law cases. Students examine issues of international organization from a number of theoretical perspectives, such as realism, liberal idealism, Marxism, and feminism. Liberal

POLS 468, 469 America and the World I, II

4-WSP

Exposes students to cutting-edge discussions of both the American polity and its role in world affairs by reading extremely current literature. Emphasis on the relation between normative theory and political practice. Topics considered include citizenship, American national identity, democracy, sovereignty, and globalization, but specific focus varies depending upon readings. Heavy reading load; emphasis on class discussion and student book reviews of material. Taught alternately as POLS 468 A&W I or POLS 469 A&W II, with a different reading list each time; students may take both 468 and 469 for credit. Liberal Arts.

POLS 480 Senior Capstone: Politics Seminar

4-S

Capstone course of the major in which students integrate concepts, knowledge, skills, methods, approaches, and practical experience in politics and government. Will improve research, writing, analytical, and communication skills by researching, writing, and defending a paper based on original research in both primary and secondary sources and similar in quality to what would be expected in the first year of graduate study.

POLS 496 Honors in Political Science

4-S

Liberal Arts.

PRPR 202A Premedical-Pre-dental Practicum (P/U)

3-May

Observation and practical experience with physician or dentist on a one-to-one basis. Preparation and sharing of experiences on the Houghton campus. Open only to serious medical or dental school candidates.

PSY 111 Introduction to Psychology

3, 4-F&S

Scientific study of thinking, emotion, and behavior. Surveys theories, issues, and concepts of psychology. May include research participation requirements. Community: Psychology. Liberal Arts.

PSY 191, 192; 291, 292; 391, 392; 491, 492 Independent Study

1, 2, 3, or 4-WSP

Liberal Arts.

PSY 211, 311, 411 Special Topics in Psychology

2, 3, or 4-WSP

According to interest and demand, courses will be offered in Cross-cultural Psychology, Environmental Psychology, Industrial/Organizational Psychology, and other topics. Liberal Arts.

PSY 213 Developmental Psychology

4-F&S

Concepts and principles, theories, and research methods associated with the development of the individual from conception through old age. Liberal Arts.

PSY 217 Adolescence and Emerging Adulthood

2-F

Concepts and principles, theories, and research methods associated with the development of the individual from early adolescence to young adulthood. Liberal Arts.

PSY 218 Social Psychology

3-F

Social behavior from a sociological and psychological perspective, examining the interaction of behaviors of individuals in groups. Topics: prejudice, group processes, leadership, conformity, attitudes, change. Community: Psychology. Liberal Arts.

PSY 230 Lifespan Development of the Family

4-S

Considers developmental theory and research related to family composition and systems throughout the lifespan. Attention will be given to nontraditional families as well as to events that affect family development including divorce, abuse, alcoholism, mobility, poverty, and death. Community: Psychology. Liberal Arts.

PSY 301 Psychology of Personality

3-S

Description, development, dynamics, determinants and assessment of the normal personality. Emphasis on contemporary theories and research. Liberal Arts.

PSY 305 Abnormal Psychology

3-F

Etiology, dynamics, assessment, and treatment of psychopathology. Prerequisite: six hours in psychology. Liberal Arts.

PSY 306 Psychology of Religion

3-F

Study of religious and spiritual experience and behavior from a psychological perspective, including the integration of psychology and Christianity. Topics covered include conversion, faith, mysticism, spiritual development. Examines the origin and nature of religion according to thinkers such as Kierkegaard, Freud, Jung, Maslow, Tillich, and Frankl. Liberal Arts.

PSY 307 Statistics I

2-F&S

Descriptive statistics: Measures of central tendency and variability, skewness, frequency distributions, graphing, discrete and continuous probability functions, and sampling. Liberal Arts.

PSY 308 Statistics II

2-F&S

Inferential statistics: Sampling distributions, estimation, hypothesis testing, t-tests, ANOVA, Chi-Squared, correlation, and regression. Prerequisite: BADM/PSY 307 or equivalent by placement test. Quantitative Literacy Competency: Math. Does not meet IS: Creation requirement in Mathematics. Liberal Arts.

PSY 309 Statistics

4-F&S, 3-M

Descriptive and inferential statistics: Measures of central tendency and variability, discrete and continuous probability functions, sampling, estimation, hypothesis testing, correlation, regression, Chi Squared, ANOVA. (Also listed in BADM) Quantitative Literacy Competency: Math. Does not meet IS: Creation requirement in Mathematics. Liberal Arts.

PSY 310 Experimental Methods

4-F&S

Experimental and other quantitative methods used in the study of thinking and behavior. Applied statistical analysis, laboratory experiences, and research writing. Prerequisite: PSY 307 & 308 or 309. Liberal Arts.

PSY 314 Child Psychopathology

3-S

The etiology, dynamics, and treatment of psychopathology in children. The main objective is to think developmentally about psychopathology as it unfolds from childhood through adolescence. Liberal Arts.

PSY 321 Adult Development and Aging

2-WSP

The study of social, cognitive and physical changes from early adulthood through later life with special attention to concepts, theories, and research related to processes of aging and dying. Liberal Arts.

PSY 325 Human Sexuality

3-S

Examines sexuality as a component of our personalities, an aspect of our behavior, and an element in our environment. Considers how sexuality develops and interacts with other aspects of our thought and behavior. Liberal Arts.

PSY 326 Family Systems Theory through Film

3-F

Builds on lower level courses: Lifespan Development of the Family, and Introduction to Marriage and Family Studies. Pedagogy is seminar style and discussion-oriented. Liberal Arts.

PSY 330 Conflict Management

3-S16

An introduction to conflict management that balances coverage of major theories with practice in communication skills and conflict intervention techniques (e.g. assertiveness training, mediation, negotiation). Focus on experiential learning, with heavy emphasis on written analysis that includes analytical journaling and analysis of scientific journal articles. Liberal Arts.

PSY 335 Drugs and Behavior

3-S

Principles of action of psychoactive drugs; their effects on body, mind, and society; patterns and causes of their use and abuse; prevention and treatment. Liberal Arts.

PSY 336 Cognitive Psychology

3-F14

Critical examination of the main psychological theories and research of perception, thinking, solving problems, memory, and language with applications in learning, research, and therapy. Liberal Arts.

PSY 337 Social Cognition

3-S15

Social cognition is a sub-discipline of social psychology that focuses on how people think about the world and make sense of complex social environments. Covers social behavior from a cognitive perspective with stereotyping, social perception, affect, and the self. Liberal Arts.

PSY 354 Brain and Behavior

4-F

Relationship of brain, nervous system, and physiology with behavior. Brain basis of sensation, emotion, aggression, learning, communication, and mental disorders. 3 hours lecture, 3 hours lab per week. Lab fee

PSY 393 Collaborative Research in Psychology

0 - 4-F&S

Students conduct a research project in collaboration with other students and a faculty member. Topics in social psychology, cognition, learning, biopsychology, and personality are available. Students will review the literature, design and conduct empirical research, analyze and explain the results, write a report in journal submission format, and present at an appropriate conference. Students may take this course up to four semesters. Requires permission of instructor. Liberal Arts.

PSY 394 Summer Collaborative Research in Psychology

0 - 4-Summer

Students conduct a research project in collaboration with other students and a faculty member. Topics in social psychology, cognition, learning, biopsychology, and personality are available. Students will review the literature, design and conduct empirical research, analyze and explain the results, write a report in journal submission format, and present at an appropriate conference. Students may take this course up to four semesters. Requires permission of instructor. Liberal Arts.

PSY 401 History and Systems of Psychology

2-WSP

Antecedents and evolution of psychological systems and concepts, including the life and works of historically eminent psychologists. Prerequisite: 16 hours in psychology. Liberal Arts.

PSY 402 Counseling and Psychotherapy

4-S

Introduction to major systems of psychological intervention and their rationale. Emphasis on theory rather than practice. Liberal Arts.

PSY 410 Practicum in Psychology

1, 2, 3-F&S

Introduction to professional work in psychology through field experiences in such settings as school psychology, personnel, continuing treatment programs, alcohol and drug abuse treatment centers, and developmental disability centers. Prerequisite: senior status and permission of the department. Contact: Professor Richard Stegen. Liberal Arts.

PSY 415 Internship in Psychology

4 or 6-F&S

A supervised experience in a psychological setting integrating theory with professional practice. Also available as part of the City Semester program. By application only through the department. Contact: Professor Richard Stegen. Liberal Arts.

PSY 451 Learning and the Brain

3-S15

Analyzes theories and research of learning, including the interaction of learning and the brain. Applications in teaching, research, and therapy. Liberal Arts.

PSY 480 Senior Capstone Seminar

2-F&S

Informed discussion of significant and contemporary concepts and issues. Includes development of an individual research or group project on some aspect of the discipline. Required of all senior majors. Prerequisites: PSY 309, PSY 310, and 21 hours of psychology. Liberal Arts.

PSY 496 Honors in Psychology

4-S

Liberal Arts.

REC 103 Initiatives (Activity Lab)

1-F

Problem-solving activities in which group dynamics and team building will be emphasized through group discussions and participation in facilitated ropes course, initiative, values clarification and "new games" activities. Health and Wellness: Point 4.

REC 104 Backpacking (Activity Lab)

1-S

Develop skills and knowledge in backpacking and provide the opportunity for students to enjoy the outdoors. Two weekend overnight backpacking trips will take place during the semester. Health and Wellness: Point 2 or

REC 109 Highlander Adventure Program (Activity Lab)

2-Special

Two to three days on the initiatives course and a seven-day trip into the wilderness. Develop skills in canoeing, rock climbing, rappelling, backpacking. Open only to incoming first-year and transfer students. Offered 10 days before fall semester. Health and Wellness: Point 3 and Point 4.

REC 191, 291, 391, 491 Independent Study

1, 2, 3, or 4-WSP

REC 202 Scuba Diving in Honduras

2-May

This course will offer PADI Open Water Diver Certification. You earn this license by completing 5 sessions in a diving pool, 5 knowledge development sessions, and by making 4 open water dives. Throughout this dive certification course, you will learn the fundamentals of scuba diving, including dive equipment and techniques. The PADI Open Water Certification license is a permanent scuba qualification and as a certified diver you have the freedom to dive with a buddy independent of a professional. With REC 203, Health and Wellness: Points 2

REC 203 Advanced Wilderness First Aid

2-May

The AWFA is 24 hours long, and focuses on the basic skills of: Response and Assessment, Musculoskeletal Injuries, Environmental Emergencies, Survival Skills, Soft Tissue Injuries, Tropical Medicine and Medical Emergencies. Building on the WFA, the AWFA course goes into greater depth on the basic first aid subjects, emphasizes leadership skills, and presents new skills such as building improvised litters and litter carrying. You will receive a SOLO AWFA certification, which is good for two years. It can be used to recertify SOLO's or any other 72+-hour WFR certification. With REC 202, Health and Wellness: Points 2 and 4.

REC 211 Eco-tour in Honduras

4-May

Students will have a third-world experience including a service-learning project. Visits are made to national parks and Mayan Indian ruins. Activities include hiking, snorkeling, and attending cross-cultural classes. Health and Wellness: Point 2 or Point 4.

REC 212 Eco-tourism in Africa

3-Summer

Students will learn to be stewards of the environment in the African context. Hikes, camping, visits to game parks and preserves, and service projects will be combined with lectures on the interaction with the environment, management of resources, economic impacts of tourism on the local community infrastructure and other issues related to God and His creation. Health and Wellness: Point 2 or Point 4.

REC 218 Winter Ski Outing (Activity Lab)

1-WSP

Downhill and recreational skiing skills developed at a major resort area. Techniques equal to one's ability will be taught. Offered during break, before spring semester.

REC 222 Leisure, Work and Society

4-S

This course will investigate a comprehensive overview of the role of leisure and work within contemporary Western society. Students will begin to develop a personal philosophy of work and leisure as it relates to both their personal life and relationship to society. A strong emphasis will be to integrate the various theories and philosophies of work and leisure with the Christian faith. To systematically introduce the student to both public and private agencies which deliver leisure services and opportunities. To investigate how these agencies plan and manage their programs and resources from a client oriented perspective. To provide a broad scope of leisure services and integrate their role relative to the overall curriculum in the recreation and leisure studies

REC 227 Outdoor Leadership Training (Activity Lab)

4-F&S

Outdoor leadership, in activities such as initiatives, ropes course, rock climbing, and environmental awareness, using skills in judgment, decision-making, problem solving, and basic rescue techniques. Health and Wellness: Point 4.

REC 228 Trip Experience

1, 2, or 3-May

As arranged.

REC 235 Interpreting the Environment: Trail Development

2, 3, or 4-F&S

Principles, processes, and techniques used to interpret the environment and develop interpretive materials, centers, and trails. Through service-learning, students will develop interpretive, recreational, meditative, exercise, or other trails to complement their major program or integrative studies. One hour lecture/3, 4.5, or 6 hours applied (depending on credit hours chosen-3 applied hours for 2 credits, 4.5 for 3 credits, and 6 for 4 credits). Applied hours include research and preparation of interpretive presentations as well as trail

REC 240 Administration of Organized Camps

4-F14

Principles and techniques used in organized camp administration; the role of camping in the development of personality. Staff and program development.

REC 300 Program Planning and Evaluation

4-F

Preparation for leadership in recreation programming: leadership styles and theory; principles and methods of program development; using fundamental leisure philosophy and theory to assess needs, plan, develop, implement, and evaluate recreational programs.

REC 301 Methods & Materials for Camps & Outdoor Education (Activity Lab)

4-F13

Outdoor education. Field experience in lesson planning; development of organized camp programs, activities, structured programs (cabin, campfire, work, etc.).

REC 311 Special Topics

According to interest and demand, courses will be taught relative to various therapeutic approaches to special populations: substance abuse, deviant and antisocial behavior disorders, youth at risk, etc.

Prerequisite(s): REC 222

REC 315 Wilderness First Responder

4-S

This semester-long course includes 80 hours of backcountry medicine to enable students to handle all types of wilderness emergencies. Students will learn patient assessment, treatment, and evacuation, as well as trip leadership and problem solving. Emphasis is placed on hands-on simulations of real life emergencies to supplement classroom lecture. Students who complete this course receive a three year WFR certification through SOLO. This course has a fee.

REC 401 Natural Resource Management

4-S

Investigating Christian environmental ethics; identifying and protecting biologically sensitive areas; rehabilitating damaged areas and resources; sound ecological practices; controlling user behavior; site problems; resource management plans.

REC 406 Recreation Internship

4, 5, or 6-WSP

Professional field experience in the area of emphasis; the student will relate theory to practice in a cooperative effort between agency, student, and advisor. Permission of instructor required.

REC 496 Honors in Recreation and Leisure Studies

4-WSP

REL 221 Hinduism and Buddhism

2-F13

Examines the history, major beliefs and current practice of the Indic (Hindu, Buddhist) religious traditions. Special emphasis is given to the Christian encounter with these world faiths. Liberal Arts.

REL 222 New Religious Movements I: Eastern Branches

2-F13

Examines the history and major beliefs of New Religious Movements that take their orientation from, or derive their impetus from critical confrontation with, one of the major Eastern traditions. Movements studied include Theosophy, Transcendental Meditation, Soka Gakkai, New Age. Liberal Arts.

REL 225 Taoism and Confucianism

2-S15

Examines the history, major beliefs and current practice of the Sinic (Taoist and Confucian) religious traditions. Special emphasis is given to the Christian encounter with these faiths. Liberal Arts.

REL 231 Judaism

2-F14

Examines in critical perspective the history and major beliefs of the Semitic religious traditions (Judaism, Christianity, and Islam). Special emphasis is given to the Christian encounter with Judaism and Islam. Liberal

REL 232 New Religious Movements II: Western Branches

2-F14

Examines the history and major beliefs of New Religious Movements that take their orientation from, or derive their impetus from critical confrontation with, one of the major Western traditions. Movements studied include Jehovah's Witnesses, Nation of Islam, Satanism, and Wicca. Liberal Arts.

SOC 101 Sociological Imagination: Principles of Sociology

3-S

Introduction to the sociological perspective and sociology program emphasis. Explore environment, development, social work, and marriage-family topics and issues. Understand social and cultural influences on human action, relationship between our personal lifestyles and society, and how to address challenges facing communities. Community: Sociology. Liberal Arts.

SOC 191, 192, 291, 292, 391, 392, 491, 492 Independent Study

1, 2, 3, or 4-F or S

Liberal Arts.

SOC 195, 295, 395 Special Topics in Sociology

2-4-WSP

Topics offered according to interest and demand. (Topics include Introduction to Social Work, Race and Ethnicity.) Liberal Arts.

SOC 218 Social Psychology

3-F

Introduction to social behavior from a sociological and psychological perspective. Individual behavior as it affects and is affected by the behavior of others. Topics: prejudice, group processes, leadership, conformity, attitude change. Liberal Arts.

SOC 222 Social Problems

4-F15

Survey of contemporary local, national, and international social and environmental conditions labeled as problems in U.S. and global society. Introduces students to sociological explanations for how observed conditions are perceived and constructed as social problems in human societies. Community: Sociology. Liberal

SOC 226 Culture, Faith, and Creation

4-F15

Investigate how societies sociologically construct the human-environment relationship. Examine empirical research about how Christians think and act toward the environment in modern societies. Explore the connections between your faith and creation and apply them to everyday life. Community: Sociology. Liberal

SOC 237 Introduction to Marriage and Family Studies (CDRP, see Foreign Languages)

3-F14

The changing structure and functions of marriage and the family in modern society; emphasis on dating patterns, marriage selection, sex roles, childbearing patterns, and family life cycles. Community: Sociology.

SOC 243 Cultural Anthropology (CDRP, see Foreign Languages)

4-F

Cultural and social aspects of human behavior; comparison of cultures. Community: Anthropology. Liberal Arts.

SOC 277 Crime and Society: Environmental Crime

2-WSP

Examines sociological explanations for how the ecological impacts of various kinds of human actions become categorized as "environmental crime" in society. Introduces students to the social process for how they are labeled deviant and prohibited through law, monitored and policed by regulation and enforcement, prosecuted and deterred through the criminal justice system, and influenced by globalization and transnational corporations. Liberal Arts.

SOC 285 Sociology of Development

2-WSP

Introduces students to the global context and dimensions of development and social change within and among human societies. Examines sociological explanations for why different nations follow different paths of industrialization and vary in their form of economic production and organization or associated political decision-making processes. Explores why some nations become wealthy while others remain poor with reference to social theories of development and the costs and benefits of different development trajectories. Liberal Arts.

SOC 297 Special Topics in Family Studies

2-4-WSP

Topics offered according to interest and demand. Liberal Arts.

SOC 305 Introduction to Sustainable Community Development

This course explores how knowledge of ecological systems, globalization, political economy, and the biblical worldview come together in the pursuit of development that is community-minded, just, and ecologically sustainable. Through readings, lectures and fieldtrips, students study complex issues in sustainable development such as the nexus of poverty, the environment, and justice, and the many practical challenges associated with sustainable community development. (Major/minor credit for Sociology, INCL elective or optional elective for Development Concentration, or general elective).

SOC 312 Social Science Research Methods

4-S

Basic scientific method, application to social phenomena; procedures and methodological problems in various types of social research; methods of data analysis. Recommended for junior year, after completion of SOC 309. Liberal Arts.

SOC 322 Social Stratification

2-WSP

Major theories and evidence relating to the origin, nature, and social consequences of stratification systems of social inequality in contemporary United States. Liberal Arts.

SOC 327 Governing Urban Communities

4-WSP

A study of local governance and politics in an urban context, exploring neighborhood, citywide, and metropolitan levels of organization with an emphasis on policy analysis and civic engagement. Includes a fieldwork component in Buffalo combining research and service learning. This course has a fee. Liberal Arts.

SOC 330 Culture and Family (CDRP, see Foreign Languages)

2-WSP

A multicultural and cross-cultural exploration of family environments, history, processes, and structures in various types of societies throughout the world, relying on sociological and anthropological principles. Liberal

SOC 338 Religion, Faith, and Society

2-WSP

Introduces students to the sociological perspective on religion and religious behavior in modern and developing societies. Examines the relationship of religion to other major social institutions (family, economy), its role in social conflicts (genocide, terrorism), and the influence of religious sub-cultures (US Evangelicals) on contemporary issues (environmentalism, politics). Liberal Arts.

SOC 350 Culture Change and Its Effects on Traditional Societies

4-F

Globalization is spreading rapidly around the world, and this is causing significant culture change to traditional societies. With a strong focus on history and case studies, this course will make students aware of what is happening and give them the theoretical knowledge to understand, empathize with, and assist people who are wrestling with change. Pre- or Co-requisite: Cultural Anthropology. Liberal Arts.

SOC 351 The Individual and Society

2-WSP

Examines the major dilemmas that profoundly affect life in post-industrial Western society: dilemmas between individual freedom and social equality and between rational organization and community. (Recommended for students planning to attend graduate school.) Liberal Arts.

SOC 361 Race, Gender and Environment

4-WSP

Introduces race and gender as social characteristics affecting individuals' experience of the environmental benefits and costs of development and industrialization in developed and developing countries. Examines the social conflict between dominant (majority) and subordinate (minority) racial/ethnic groups in defining "environmental racism" and the evidence for it. Analyzes how gender structures the life experience of females in accessing natural resources and participating in management decision-making processes. Includes multi-cultural perspectives on race and gender relations with respect to local, national, and global examples of the environmental justice movement. Community: Sociology. Liberal Arts.

SOC 362 Gender Relations

2-WSP

Introduction to gender relations; focus on gender roles over life cycle. Includes multicultural perspectives on gender relations. Liberal Arts.

SOC 390 Practicum in Family Studies

1, 2, 3, or 4-F&S

Supervised experience in a family services setting integrating theory with professional practice. Requires junior or senior standing, the completion of at least nine hours in the Family Studies minor, and permission of the department. Contact: Professor Richard Stegen. Liberal Arts.

SOC 394 Internship in Family Studies

4 or 6-F&S

An optional supervised experience in a family studies setting integrating theory with professional practice. Also available as part of the City Semester program. By application only through the department. Contact: Professor Richard Stegen. Liberal Arts.

SOC 410 Practicum in Sociology

1, 2, 3, or 4-F&S

Supervised experience in a sociological setting integrating theory with professional practice. Requires permission of the department. Contact: Professor Richard Stegen. Liberal Arts.

SOC 415 Internship in Sociology

4 or 6-F&S

An optional supervised experience in a sociological setting integrating theory with professional practice. Also available as part of the City Semester program. By application only through department. Contact: Professor Richard Stegen. Liberal Arts.

SOC 480 Senior Capstone: Sociology Seminar

2-S

Capstone course of the major which will include preparing a resume for graduate school or a career, conducting an academic seminar over a primary reading in Sociology, preparing for & taking the Sociology Major Field Test, teaching a sociology class, & completing a major paper or project that reflects your personal, spiritual, and intellectual development. Liberal Arts.

SOC 496 Honors in Sociology

4-S

Liberal Arts.

SPAN 101 Spanish Level 1

4-F

Emphasizes the development of communicative competence in Spanish, bringing students to the novice-mid level of oral proficiency. At this level, communicative tasks are specifically focused on interpersonal and interpretive modes. Additional activities develop an awareness and appreciation of the variety of cultures of the Spanish-speaking world. Liberal Arts.

SPAN 102 Spanish Level 2

4-S

Emphasizes the development of communicative competence in Spanish, bringing students to the novice-high level of oral proficiency. At this level, students continue to develop their ability to communicate in interpersonal and interpretive modes. Additional activities develop awareness and appreciation of the variety of cultures of the Spanish-speaking world. Competency: Foreign Language. Liberal Arts.

SPAN 111 Spanish for Human and Social Services I

4-WSP

Equips current and prospective workers in the human and social services fields with the skills and sensitivity for effective service to the needs of a Spanish-speaking clientele. Using task-based, practical applications, the course brings students the novice-high level of oral proficiency on the ACTFL scale.

SPAN 112 Spanish for Human and Social Services II

4-WSP

Equips current and prospective workers in the human and social services fields with the skills and sensitivity for effective service to the needs of a Spanish-speaking clientele. Using task-based, practical applications, the course brings students the novice-high level of oral proficiency on the ACTFL scale. Competency: Foreign

SPAN 121 Spanish for Educators I

4-WSP

Focuses on acquisition and development of Spanish for current and prospective elementary and secondary school educators, particularly TESOL professionals, school administrators, nurses and coaches who need to interact with Spanish-speaking students and their families. Uses Spanish in context with practical applications, brings students to the novice-high level of oral proficiency, and deepens understanding of the cultural perspectives of Spanish-speaking areas.

SPAN 122 Spanish for Educators II

4-WSP

Focuses on acquisition and development of Spanish for current and prospective elementary and secondary school educators, particularly TESOL professionals, school administrators, nurses and coaches who need to interact with Spanish-speaking students and their families. Uses Spanish in context with practical applications, brings students to the novice-high level of oral proficiency, and deepens understanding of the cultural perspectives of Spanish-speaking areas. Competency: Foreign Language.

SPAN 131 Spanish for Business and Finance I

4-WSP

Focuses on building the vocabulary and communicative skills needed to communicate with (potential) Spanish-speaking partners and clientele. Uses Spanish in context with practical applications, brings students to the novice-high level of oral proficiency, and deepens their understanding of the cultural norms of the business culture in the Spanish-speaking world.

SPAN 132 Spanish for Business and Finance II

4-WSP

Focuses on building the vocabulary and communicative skills needed to communicate with (potential) Spanish-speaking partners and clientele. Uses Spanish in context with practical applications, brings students to the novice-high level of oral proficiency, and deepens their understanding of the cultural norms of the business culture in the Spanish-speaking world. Competency: Foreign Language.

SPAN 141 Spanish for Health Professionals I

4-WSP

Promotes acquisition and development of communicative skills in Spanish for current and prospective healthcare professionals. Using task-based, practical applications, enables students to communicate in Spanish regarding matters of diagnosis, symptoms and treatment; brings students to the novice-high level of oral proficiency and deepens their understanding of the cultural perspectives that inform the healthcare practices among Spanish-speaking populations.

SPAN 142 Spanish for Health Professionals II

4-WSP

Promotes acquisition and development of communicative skills in Spanish for current and prospective healthcare professionals. Using task-based, practical applications, enables students to communicate in Spanish regarding matters of diagnosis, symptoms and treatment; brings students to the novice-high level of oral proficiency and deepens their understanding of the cultural perspectives that inform the healthcare practices among Spanish-speaking populations. Competency: Foreign Language.

SPAN 191, 192; 291, 292; 391, 392; 491, 492 Independent Study

1, 2, 3, or 4-WSP

Liberal Arts.

SPAN 205 Intermediate Spanish

4-F

Bridges the gap between beginning-level and advanced courses. Attention is paid to vocabulary, reading strategies, writing skills, and conversation. Grammar review and enhancement are part of the course. Liberal

SPAN 207 Aspects of Costa Rica: Language, Culture, and People

3 or 4-May

(SPAN 207 fulfills SPAN 102) This is a 3-week service-learning experience in Costa Rica, hosted in the homes of nationals. 30 hours of intense language instruction at Language in the San Jos   area. Opportunities for service, worship, relationship-building and excursions present a broad picture of life in Latin America.

Prerequisite: SPAN 101 or equivalent. Cost: check with professor. Liberal Arts.

SPAN 301 Spanish Communication

4-S

Exercises, dialogue, readings, discussions and oral practice improve ability to comprehend and communicate in Spanish. Prerequisite: SPAN 205 or equivalent, or permission of instructor. Liberal Arts.

SPAN 305 Spanish Phonetics

4-F

A survey of pronunciation problems, designed to help the English speaker develop an accurate pronunciation of Spanish. Introduction to the phonetic alphabet and to basic concepts of linguistic science. Extensive oral practice. Prerequisite: SPAN 301 or permission of instructor. Liberal Arts.

SPAN 312 The Latino in the U.S.

4-WSP

Explores the historical process that led to Latino migrations to the US and examines themes of cultural and national identity in major works of literature and media created by Latino writers in the US. The goal is to identify the economic, political, social, and cultural conditions of the Latino in the US society. Prerequisite: SPAN 301 or permission of instructor. Liberal Arts.

SPAN 346 Aspects of Costa Rica: Language, Culture, and People

3 or 4-May

(Fulfills conversational language requirement for Intercultural Studies majors and serves as an elective for the Spanish major or minor.) This is a 3-week service-learning experience in Costa Rica, hosted in the homes of nationals. 30 hours of intense language instruction at Language in the San Jos   area. Opportunities for service, worship, relationship-building and excursions present a broad picture of life in Latin America.

Prerequisite: SPAN 101 or equivalent. Cost: check with professor. Liberal Arts.

SPAN 350 Advanced Spanish Grammar and Composition

4-WSP

A comprehensive course in structure and usage. Prerequisite: SPAN 301 or equivalent or permission. Liberal

SPAN 395, 495 Special Topics

1-4-WSP

Topics not covered in-depth elsewhere in the curriculum: Latino migration to the U.S., human rights in Latin America, the Afro-Hispanic diaspora, and popular culture in the Hispanic world. Prerequisite: SPAN 301 or equivalent, or permission. Liberal Arts.

SPAN 401 Survey of Spanish Literature

4-F16

Representative works of Spanish Peninsular literature from the pre-medieval jarchas to contemporary times.

Prerequisite: SPAN 350 or permission of instructor. Liberal Arts.

SPAN 402 Spanish Literature and Film: Twentieth Century - Present

4-F15

Emerging structures of gender, class and nationality in contemporary Spain, examining the multiple ways identity is culturally and historically inscribed through political, sexual and social movements. Prerequisite: SPAN 350 or permission. Liberal Arts.

SPAN 405 Civilization and Culture of Latin America

2-F or S

Survey of Spanish-American culture, pre-Columbian to the present. Socioeconomic problems and relationships with the United States. Prerequisite: SPAN 350 or permission of instructor. Liberal Arts

SPAN 406 Civilization and Culture of Spain

2-F or S

Geography and cultural history of Spain. Present political situation, education, art, music, everyday life.

Prerequisite: SPAN 350 or permission of instructor. Liberal Arts

SPAN 410 Advanced Conversation: Film and Culture

4-S15

Examines the ways in which films of Spain and Latin America reflect, represent or problematize questions of national identity and gender, and the extent to which films engage with and subvert social realities and other cultural forms. How each film addresses, or does not address, specific national concerns, especially urban issues such as delinquency, violence and corruption, will serve as a springboard for oral discussions.

Prerequisite: SPAN 350 or permission. Liberal Arts.

SPAN 412 Latin American Human Rights Narratives

4-WSP

Examines testimonial narratives from Spanish-speaking Latin America in the last 30 years and the uses of memory and narration in bearing witness to human rights abuses, oppression, systematic killings, repression and violence. Explores the historical context of these accounts and the similarities and differences they present in their structure and narrative voice as well as specific political and social concerns and their effect on today's society. Prerequisite: SPAN 350 or permission of instructor. Liberal Arts.

SPAN 414 Faith and Society in Latin America

4-WSP

A historical examination of the role of the Catholic Church in the life of the people and society in Latin America and its particular expressions of faith and practice. There will also be a study of the impact of Protestantism over the past century in Latin America as well as some attention to non-Christian groups and practices.

Prerequisite: SPAN 350 or permission of instructor. Liberal Arts.

SPAN 415 Evita and Her Sisters: Women in Latin America Lit

4-WSP

Exploration of the historical/mythical female as portrayed, manipulated, or rewritten. Students discuss the discursive strategies and representational codes of the Latin American Woman Icon and investigate how historical, political, or religious female figures are continuously reshaped to conform to the cultural demands of each particular historical moment. Prerequisite: SPAN 350 or permission. Liberal Arts.

SPAN 416 Eve and Mary in Spanish Literature

4-WSP

Examines the construction of representative erotic themes and motifs as contrasted to the development of moral and religious ones. It will consider the tensions between religious identity, reason, spiritual experience and eroticism in literature from Spain. The works of Jewish, Muslim, and Christian authors from pre-modern Spain, the mystics of the Siglo de Oro, as well as contemporary authors will be studied. Prerequisite: SPAN 350 or permission of instructor. Liberal Arts.

SPAN 417 Female Voice in Spanish Literature

4-WSP

Examines the persistent attempts of female-authored texts to subvert, challenge, or transgress the patriarchal limitations placed on women by the traditional roles and spaces assigned to them in society. It will explore their dissenting voices across different times, spaces, and genres. Special consideration will be paid to questions about voice and writing, body, desire, sexuality and madness. Prerequisite: SPAN 305 or permission of instructor. Liberal Arts.

SPAN 418 Latin American Boom Literature

4-WSP

The Latin American "Boom" in Literature occurred during the 1960s and 1970s when Latin American Literature burst onto the world literary stage at the pen of writers such as Gabriel Garcia Márquez, Carlos Fuentes and Mario Vargas Llosa. The novel in particular flowered during this era and will be our focus of exploration and adventure. Prerequisite: SPAN 350 or permission of instructor. Liberal Arts.

SPAN 423 Masterpieces of Spanish-American Literature

4-F14

Selected readings from outstanding Spanish-American authors representing different countries, periods and genres. Prerequisite: SPAN 350 or permission of instructor. Liberal Arts.

SPAN 481 Spanish Internship

1, 2, 3, or 4-WSP

Experience in a college class. Assist a professor in an intermediate class 3 days a week. Introduction to prevailing methods of instruction. Prerequisite: Spanish major, instructor permission. Priority to upperclassmen and education students. Liberal Arts.

SPAN 485 Senior Capstone: Spanish

2-S

This final course in the major allows students to demonstrate mastery of Spanish and integration of their knowledge of related cultures, history, literature, and linguistics. Significant research paper or project, portfolio demonstrating the process of their learning, presentation, and a final project. Prerequisites: Senior, department chair approval. Liberal Arts.

SPAN 496 Honors in Spanish

4-S

Liberal Arts.

THEL 191, 192; 291, 292; 391, 392; 491, 492 Independent Study

1, 2, 3, or 4-WSP

Liberal Arts.

THEL 209 Introduction to Christianity

4-F&S

An introductory survey of the main beliefs and practices that constitute the Christian tradition. Christianity will be approached in a way that overcomes the traditional division between doctrine and practice. The Biblical, theological, historical, ethical, and spiritually formative aspects of Christian faith will be explored. The course aims to enable the student to develop a personal theology and life perspective that is informed by Christian faith and Christian spirituality. This course is a prerequisite for all other THEL courses. Faith Foundation:

Prerequisite(s):BIBL 101

THEL 210 Theology of Creation

2-S15

Explores the notion of creation from a biblical and theological perspective and examines several contemporary Christian responses to the environmental crisis.

Prerequisite(s):THEL 209

THEL 215 Christian Apologetics

4-S15

The course seeks to “give reason for the faith that is written within us” by making theological reply to those questions raised when Christian faith collides with contemporary situations. Classical and contemporary questions and methodologies will be considered.

Prerequisite(s):THEL 209

THEL 220 History of Christianity

4-F

Examines the ancient, medieval, Reformation and modern development of Christianity in its various contexts. Attention will be given to the lives of prominent men and women as well as doctrines and institutions developed in each era. Connections with current theological issues and church practice will be considered. Liberal Arts.

Prerequisite(s):THEL 209

THEL 230 Building Shalom: Justice, Love, and the Christian Life

2-F

This course examines biblical, theological, and philosophical ideas related to the practice of justice. Particular attention is given to the intersection of justice and love in Christian endeavors to address real-life issues.

THEL 232 Poverty, Wealth and the Christian Gospel

2-F

This course addresses issues of poverty and wealth through examination of biblical and theological texts with an eye toward faithful Christian responses.

THEL 240 Ethnicity, Race, and the Church

2-F

Using biblical and theological lenses, this course examines how well churches in the US have navigated issues of race, ethnicity, and equality in society and within church structures. Includes a focus on the development of African-American churches.

THEL 295, 395, 495 Special Topics

1, 2, 3, or 4-WSP

Liberal Arts.

THEL 300 Christianity, Postmodernism, and Beyond

4-F (odd years)

Explores relationship between Christian faith and practice and postmodern culture. Primary & secondary readings drawn from a variety of disciplines and sources explore the implications of postmodernism for church, individuals, the media & popular culture. Liberal Arts.

Prerequisite(s):THEL 209

THEL 310 Women, Men and the Image of God

2-F

In this course attention is given to Scriptural and theological models for understanding the nature of the human being as well as the ethical and social implications of a theology of human equality.

THEL 313 Systematic Theology

4-S

Survey of the main tenets of the Christian faith. Doctrines examined in light of Biblical basis and constructive formulations. Introduces the student to Christian theology and equips the student to develop a personal

Prerequisite(s):THEL 209

THEL 315 Wesleyan Tradition

4-S

Study of the Wesleyan movement from the Wesleys to the present. Emphases on the history of The Wesleyan Church and the doctrine of holiness. Liberal Arts.

Prerequisite(s):THEL 209

THEL 316 Worship in the Church

3-F14 & alternate years

An introduction to liturgical theology including explorations into the Biblical and theological foundations for worship and the sacramental life of the church. Special emphasis is given to the task of contextualization in planning worship services, and examining the pastoral role in the church's liturgical life and witness.

THEL 320 Spiritual Formation

4-F

Examines the nature and process of spiritual growth and maturation in the life of the Christian. As an academic course of study, this class arises out of ascetical theology and thus emphasizes the writings of early, medieval, and later Christians. Primary emphasis is given to the role of the classical spiritual disciplines in the formation of character. Liberal Arts.

Prerequisite(s):THEL 209

THEL 325 American Church History

4-WSP

Examines the historical and theological roots of the varied Christian traditions in the US. Attention will be given to European traditions transplanted in the new world and to the ways they developed in the American context; also consideration of the indigenous American Christian traditions and the resulting variety of ecclesial configurations. Liberal Arts.

Prerequisite(s):THEL 209

THEL 327 Church, Mission and Culture

4-S

This course seeks to define an understanding of the Church in relation to the mission of the triune God in and to all of creation. A biblically and theologically informed ecclesiology, integrated with the disciplines of missiology and sociology, will shape the traditional concerns of leadership, Church order, and pastoral vocation.

THEL 333 Major Figures in Theology

2 or 4-WSP

In-depth study of one or more figures in Christian theology with an emphasis upon primary source material for examining the theologians in the context of their lives and times. Liberal Arts.

Prerequisite(s):THEL 209

THEL 334 Studies in Theology

2 or 4-WSP

Topics of current theological interest. Specific schools of theology, doctrines, or theological trends will be

Prerequisite(s):THEL 209

THEL 337 Theological Foundations of the Family

4-F

Study of major conceptual designs for family. Will emphasize a comparative analysis of religious models and the relationships between these influential systems and family practices. Introduces students to the role of the family in ethical value formation. Liberal Arts.

Prerequisite(s):THEL 209

THEL 340 The Nature of God

2-F

Introductory course in philosophical theology, focusing on the concept of God. Philosophical analysis of divine attributes (such as God's power, knowledge, goodness, and relation to time). Liberal Arts.

Prerequisite(s):THEL 209

THEL 350 Reason and Religious Belief

2-F

Introductory course in religious epistemology, focusing on the sources of religious knowledge and the rationality of religious belief. Philosophical analysis of arguments for God's existence, the problem of evil, and the roles of faith and reason in religious belief. Liberal Arts.

Prerequisite(s):THEL 209

THEL 368 The Reformation

4-WSP

A survey of the continental, English, and Roman Catholic reformation of the 16th century. Culture: history. Liberal Arts.

Prerequisite(s):THEL 209

THEL 389/489 Internship in Theology

4-F/S

Supervised field experience in a church or parachurch agency combining academic work with practical and professional responsibilities and relationships. Prerequisites: Courses listed below or permission of the Christian Formation advisor.

THEL 455 Aquinas

Seminar on the thought of Thomas Aquinas involving a close reading of Aquinas's most important work, the *Summa Theologiae*, with occasional supplementation from other relevant primary and secondary literature. Liberal Arts.

Prerequisite(s):THEL 209

THEL 475 Kierkegaard: A Man for All Disciplines

4-(WSP)

Reading seminar on some key works of the "melancholy Dane," including (for example) *Either/Or*, *Fear and Trembling*, *The Sickness Unto Death*, the *Philosophical Fragments* and *Concluding Unscientific Postscript*. A "man for all disciplines," Kierkegaard's writings continue to attract interest for their philosophical and theological insight as well as their literary sophistication. Liberal Arts. .

Prerequisite(s):THEL 209

THEL 482 Senior Capstone: Seminar in Theology

2-S

A senior capstone colloquium required of all students with a major in theology.

THEL 485 Issues in Philosophical Theology

4-S15; S17

Seminar in which selected topics in Christian theology are examined via close reading and discussion of historical and contemporary works of philosophical theology. Examples of topics considered: Divine Attributes, Divine Providence (and Human Freedom), God and Ethics, Faith. The specific issue(s) to be considered will be identified each time the course is scheduled. Repeatable when topics are diverse. Liberal Arts.

Prerequisite(s):THEL 209

THEL 496 Honors in Theology

4-S

TINC 206 Intercultural Research

Learning about culture through assigned readings, discussion and interaction with people from the host culture in which the student is living. This will include an evaluation of that culture with the goal of understanding how best to communicate with the people in a culturally appropriate manner.

TLIN 202 Language Acquisition

Students will study the underlying philosophy for learning a language. They will study various theories on methods of language learning with an emphasis on right brain learning in a relational setting. The theory will then be put into practice in a community setting. The students will actually learn a language with weekly

TMIS 204 Spiritual Dynamics and Power Encounters

This course will encourage the students to critically evaluate their understanding of the spiritual realms. This will be accomplished through reading the writings of a broad range of authors and a thorough study of Scriptures. The goal will be to understand the practical out workings of this topic in the host culture.

TMIS 306 Evangelism and Church Planting

Building on the principles of Intercultural Research, the student will seek to develop a biblical model of outreach which is faithful to scripture yet appropriate in the particular cultural context in which the student is

TMIS 410 Cross-cultural Discipleship

After coming to an understanding of what a Biblical model of discipleship looks like, the student will propose a model which will take into account the distinctives of the host culture. This model should not just be theoretical, but will be used in relationships with members of the host culture.

URMN 212 Urban Ministry

4-F

What is the ministry of the church and individual Christians within diverse, complex metropolitan areas? Introduction to the Bible and to research in behavioral sciences on the city with field trips and projects in the community.

URMN 250 Evangelism and Social Action in the Urban Context

3-May

Examination of the biblical basis of evangelism and social justice. Through biblical, historical, and sociological/anthropological analyses and personal observation projects, students will assess ways in which evangelism and social action are related and will have an opportunity to develop their own theology and strategy of outreach. Taught in urban setting.

URMN 300 Urban Ministry Field Experience and Seminar

3-WSP

Supervised field experience in a core-city church or parachurch organization. Seminar with weekly cluster meeting of participating students to synthesize academic and field experience as a group. Requires 120 hours of field work. Prerequisites: URMN 212 and declaration of minor.

URMN 350 The City in Biblical and Theological Perspective

4-WSP

In-depth survey of the Scriptures from Genesis to Revelation examining the city as symbol and social reality. Analysis of various theological perspectives (Augustine, Ellul, Cox, Mouw, and others). Prerequisite: URMN 212, and declaration of minor.

WRIT 101 Writing in the Liberal Arts

4-F&S

Theme based seminar course in close reading, critical thinking, and the process of engaged writing. Techniques of expression, analysis and response. Competency “Writing. Liberal Arts.”

WRIT 111 College Writing

3-F

Development of writing skills, particularly commensurate with advanced College curricula. Demands of audience and form taught by reading, frequent writing, peer workshops, discussion and conferences. Taught at participating high schools to their selected, qualified students. Competency: Writing. Liberal Arts.

WRIT 214 Literary Non-Fiction

4-F&S

Writing across the range of forms available to the creative non-fiction writer, such as expository and persuasive writing and literary journalism. Emphasis will center on craft, personal presence, and writing for varied audiences. Liberal Arts.

WRIT 215 Life Narratives

4-F13

Techniques of personal essay, memoir, biographical essay, and related forms. Discussion of craft: nature of memory, ethics of selection, and role of the self in relation to others. Liberal Arts.

WRIT 216 Print Journalism I

2-3-F

Principles and techniques of journalism with an emphasis on the print media. Instruction in writing news, features, editorials, reviews. Overview of journalistic ethics including privacy and libel law. Liberal Arts.

WRIT 291, 292; 391, 392; 491, 492 Independent Study

Liberal Arts.

WRIT 301 Fiction

4-F

Techniques of the traditional short story. Liberal Arts.

WRIT 302 Poetry

4-S

Techniques of open and closed verse. Liberal Arts.

WRIT 304 Screenwriting

4-S

Techniques in writing screenplays. Emphasis on dramatic structure, cinematic rendering, story concept, and characterization. Liberal Arts.

WRIT 307 Writing about Spiritual Experience

4-WSP

Disciplines of the spiritual journal, writing and evangelism, the meditative essay, and devotional writing. Liberal

WRIT 310 The Extended Narrative

4-S15

A multi-genre course exploring the differences and similarities of the nonfiction and fictive narrative. Prerequisite: WRIT 215 or WRIT 301. Liberal Arts.

WRIT 311 Poetry, Liturgy, and Worship

4-F15

Techniques of poetry dedicated to worship in its several forms. Liberal Arts.

WRIT 312 Creative Writing in Public Life

4-WSP

Study and practice in the various forms of writing dedicated to social awareness and action. Prerequisite: WRIT 214 or WRIT 215. Liberal Arts.

WRIT 316 Print Journalism II

2-3-F

Principles and advanced techniques of journalism with an emphasis on the print media. Instruction in investigative reporting and long-form feature stories. Research-based editorial writing and longer reviews.

Prerequisite(s): WRIT 216

WRIT 320 Special Topics in Writing

1, 2, 3, or 4-WSP

Opportunity for study of issues and problems of writing not covered elsewhere in the curriculum such as travel writing, writing for the younger audience, writing and the natural world, humor writing. Liberal Arts.

WRIT 401 Workshop

4-S

Life experience, project and task-centered integrative capstone. Liberal Arts.

WRIT 403 Internship

4-WSP

Opportunities for practical off-campus experience. Workshop alternative with permission of Department Chair. Liberal Arts.

WRIT 404 Praxis

4-WSP

Writing Center theory and practice. Liberal Arts.

WRIT 496 Honors in Writing

4-S

Liberal Arts.

Adult Education

AC 400 Accounting and Finance for Non-Financial Managers

3-Term III

Introduction to accounting and finance concepts, including cost control, understanding and analyses of financial statements, budgeting, working capital management and financing alternatives.

BI 211 Biblical Literature

Survey of the types of literature found in the Bible. Considers the origin of the Biblical texts and canon, basic issues of interpretation (hermeneutics), and an outline of the history of Israel and of the New Testament church as a backdrop for the message. Literary, historical, and theological aspects of selected texts will be explored.

BU 300 Business Writing

3-Term I

Emphasis on improving ability to communicate effectively through writing, identification of audience and purpose, clear reasoning and rational organization, suitable wording and effective rewriting.

BU 315 Work Team Dynamics

3-Term I

Focus on dynamic processes affecting task-oriented work groups, including formation, development, maturity and effectiveness. Addresses goals, interactions, problem recognition, interventions and team meetings.

BU 325 Project Management

The primary premise of this course is that project management concepts are fundamental to most activities undertaken by organizations and individuals. Students will learn the elements of initiating, planning scheduling, resource allocation, executing, controlling and closeout for functional projects and other management initiatives. Team leadership and team dynamics will be explored as essential elements of a successful project. Opportunities to apply technology to project management will also be addressed.

BU 330 Leading Change

Examination of the critical success factors for managing organizational change successfully, that is, to become more productive and competitive. Topics to be discussed include: driving forces for change, common approaches to change initiatives, the competencies required to be effective change leaders and managers, the effect of change on an organization's stakeholders, and the measurement of results. Case studies will be used and there will be a heavy reliance on student experience with change initiatives in their own organizations.

BU 400 Fundamentals of Management

3-Term II

Effective reasoning and decision-making for organizational managers. Assessment and development of individual managerial competencies, involving leadership styles, ethical perspectives, problem solving, stating goals and objectives, and strategic and tactical planning.

BU 410 Human Resources Management

3-Term II, Spring

Perspectives on traditional, current and emerging practices in human resources management, including matters related to economics, law, psychology, sociology, and programs and policies used in employee

BU 417 Business Ethics

Ethics-related aspects of the business decision-making process. Students will address a variety of topics, including theoretical underpinnings of ethics, stakeholders, decision-making strategies, and utilization of such strategies in specific areas such as shareholder and employment relations, marketing, and globalization. The emphases of the course are issue recognition, application of ethical principles, and analysis of the consistency of corporate decision-making process with such principles.

BU 420 Employee Training and Development

3-Summer 15

An examination of employee training and human resource development in various organizations. Topics include the development, administration, and evaluation of training programs; employee development; career development; and organizational change. Issues in employee development (including assessment of employee competencies, opportunities for learning and growth, and the roles of managers in employee development) are

Prerequisite(s):BU 310

BU 425 Managing Total Rewards: Compensation and Benefits

This course explores the concept of total rewards, its fundamental elements and strategic prevalence in attracting, motivating and retaining valued employees. Additional focus will be allocated to compensation and benefits, relevant philosophies, designs, and best practices, incorporating latest issues/trends along with their potential implications. Students will participate in strategic goal and program development, examining how total rewards, compensation and benefit designs, impact individual/organization performance and contribute to defining organization culture.

Prerequisite(s):BU 310, BU 410

BU 430 Organizational Development

3-Term III

Development of theory and innovative practice relevant to leadership and organizational change. Major topics include change processes within organizations, intervention strategies in organizations to improve their effectiveness, studies of such interventions, the roles of change agents, and problems of self-awareness, responsibility and the political consequences of organizational development theory and practice.

CM 210 Interpersonal Communication

3-S15

Principles, application of interpersonal skills in the context of friendships and families. Includes personal and relational awareness, person perception, verbal and non-verbal communication, relational development, and gender communication.

CM 342 Advertising Principles

Overview of the advertising field and how it functions in society. Studies research, strategies, methods, creativity, and media planning. Typically includes case study.

Prerequisite(s):CM 331

CM 430 Integrated Marketing Communications

Focuses on both the theory and practice of blending strategies and tactics within the discipline of market communications. Explores ways to unify disparate initiatives with Marketing, Advertising, Public Relations, Sales Promotion, Branding and Event Management to achieve maximum, coordinated effectiveness in the marketplace. Prepares students for today's workplace by studying the manner in which current organizations practice Marketing for cost-effective results. While Marketing Principles touches on Public Relations and Sales Promotion, this course will include a more thorough study of these areas so students are prepared for today's marketing environment.

Prerequisite(s): CM 342, CM 331

ID 200 Student Success Seminar (Pass/Fail)

1-Spring, Fall, Summer

Mandatory workshop that informs and prepares students to maintain their course of study in P.A.C.E. while teaching them how to become successful adult learners. Students are introduced to the Houghton campus and its services while learning the value of a Christian liberal arts education. Key factors include the importance of critical thinking and insight into adult learning theories. Emphasis will be placed on self-directed learning as it relates to the program and beyond. Students also learn how to avoid plagiarism by utilizing database research methods and APA citation sources. Opportunities for reflection, based on completion of Adult Development and content of the workshop, lead to a purpose statement and goal-setting exercise that integrates with the

PY 215 Social Psychology

Social behavior from a sociological and psychological perspective, examining the interaction of behaviors of individuals in groups. Topics: prejudice, group processes, leadership, conformity, attitudes, change.

PY 300 Adult Development

3-Term I

Overview of adulthood in context of life span, including biological change, cognitive characteristics, personality and moral reasoning. Also addresses issues of gender, interpersonal relations, ethnicity, aging and impact of theory on organizational development.

PY 301 Psychology of Personality

Description, development, dynamics, determinants and assessment of the normal personality. Emphasis on contemporary theories and research.

SO 400 Diversity in the Workplace

3-Term III

Sociological approach to examining workplace diversity, stratification, stereotyping and misunderstandings, including matters related to culture, gender, ethnicity and race. Emphasis on contemporary issues and problem solving.

ST 400 Quantitative Decision Making

3-Term II

Statistics as a tool in solving real-world problems, including organizing data, using models for predictions, constructing simple graphics; use of logic and reasoning in drawing conclusions and making recommendations. Emphasis on process improvement and decision making.

TH 209 Introduction to Christianity

An introductory survey of the main beliefs and practices that constitute the Christian tradition. Christianity will be approached in a way that overcomes the traditional division between doctrine and practice. The Biblical, theological, historical, ethical and spiritually formative aspects of the Christian faith will be explored. The course aims to help the student to develop a personal theology and life perspective that is informed by Christian faith and Christian spirituality.

Houghton College City

HIST 341 Conceptualizing the City: An Exploration of the City in Western Culture

4-6-F&S

Explores the history of cities and the ideas that have shaped both their objective development “ in terms of their material culture, their economic base, and their political structure ” and our subjective experience of them. Also considers social science explanations of urban development (why cities?), 20th century trends (suburbanization, metropolitanization) and reactions to them, and ponders the future of cities in the 21st century. Reading ranges over works of history, philosophy, literary fiction, and social science. Throughout, connections to the Buffalo experience provide concrete (sometimes literally concrete) illustrations of ideas and their effects. Houghton College City Semester program. Liberal Arts.

INTS 275 Engaging Urban Culture

1-F&S

Students will explore some aspects of urban culture. Meetings will be held every other week in a setting outside of the classroom. This course provides academic structure for engagement that will help students to experience, explore, and understand the complex diversity of Buffalo and to foster reflection on our place in a diverse world. Events will be planned that explore features of urban culture, such as history, architecture, music, the visual and dramatic arts, and other aspects of Buffalo and its subcultures. [a lab or activity fee may be charged] Houghton College City Semester program. Liberal Arts.

MIN 325 Life in the City

3-WSP

The theme of urban life and mission as related to the sociology and psychology of the city is developed, focusing on life and ministry in the complexity and diversity of New York State’s second largest city. Houghton College City Semester program. Liberal Arts.

MISS 325 Life in the City

3-WSP

The theme of urban life and mission as related to the sociology and psychology of the city is developed, focusing on life and ministry in the complexity and diversity of New York State’s second largest city. Houghton College City Semester program. Liberal Arts.

POLS 341 Conceptualizing the City: An Exploration of the City in Western Culture

4-6-F&S

Explores the history of cities and the ideas that have shaped both their objective development “ in terms of their material culture, their economic base, and their political structure ” and our subjective experience of them. Also considers social science explanations of urban development (why cities?), 20th century trends (suburbanization, metropolitanization) and reactions to them, and ponders the future of cities in the 21st century. Reading ranges over works of history, philosophy, literary fiction, and social science. Throughout, connections to the Buffalo experience provide concrete (sometimes literally concrete) illustrations of ideas and their effects. Houghton College City Semester program. Liberal Arts.

PSY 324 Life in the City

3-WSP

The theme of urban life and mission as related to the sociology and psychology of the city is developed, focusing on life and ministry in the complexity and diversity of New York State’s second largest city. Houghton College City Semester program. Liberal Arts.

SOC 325 Life in the City

3-WSP

The theme of urban life and mission as related to the sociology and psychology of the city is developed, focusing on life and ministry in the complexity and diversity of New York State’s second largest city. Houghton College City Semester program. Liberal Arts.

URMN 325 Life in the City

3-WSP

The theme of urban life and mission as related to the sociology and psychology of the city is developed, focusing on life and ministry in the complexity and diversity of New York State’s second largest city. Houghton College City Semester program. Liberal Arts.

Online

BU 310 Employment Law

3-Spring

A conceptual and functional analysis of the legal framework and principles of industrial and employment relations with special emphasis on discrimination based on race, sex, age, and disability; testing and performance appraisal; wrongful discharge; labor/management issues; and employee benefits.

BU 320 Leadership Development

3-Spring

A study of the principles of leadership found in biblical leaders, throughout history, and in our own lives. Designed as an interdisciplinary course, specifically to help guide personal understanding of both leadership responsibilities and leadership abilities. It is not intended only for individuals who aspire to positions of leadership or just for those who think they have what are normally considered \leadership\" abilities. It is intended for anyone seeking to understand how to better be able to influence others for good, regardless of their profession, position, gifts, or calling. Liberal Arts."

BU 415 Staffing and Performance Management

Examination of recruiting, selection, and performance appraisal and an understanding of all facets of performance management including training and development, developing reward systems, performance measurement, equal employment practices, counseling and promotion processes. Discussions will also include strategies to recruit, retain and develop a diverse workforce.

Prerequisite(s):BU 310

CM 331 Marketing Principles

An overview of consumer behavior and strategies related to product development, pricing, promotion and distribution of consumer and business products and services in both domestic and international markets.

CM 356 Marketing Research

Study of the techniques used in collection and analysis of secondary and primary data and use of that format for decision-making in marketing environment. Student teams work on real business marketing research projects.

Prerequisite(s):CM 331

MTH 200 Music Fundamentals Review (P/F)

O-F

Focused work in identification (aural and written) of intervals, scales, rhythms, chords and other basic materials of Western tonal music.

PY 310 Conflict Management

An introduction to conflict management that balances coverage of major theories with practice in communication skills and conflict intervention techniques (e.g. assertiveness training, mediation, negotiation). Focus on experiential learning, with heavy emphasis on written analysis that includes analytical journaling and analysis of scientific journal articles. Liberal Arts.

Prerequisite(s):BU 310

Student Life

Houghton College “prepares students to live and lead as change agents in our world.” How exactly does this take place? As conceived historically, a liberal arts education occurs both inside and outside the classroom. At Houghton College, faith and character development are foundational to this process. Our community of faith and learning includes supporting, celebrating and sharpening one another. The Houghton College experience is one of academic challenge, spiritual vitality and interpersonal connectedness. The typical Houghton student studies hard but also serves, gets involved in co-curricular campus activities, participates in intramural sports and forms lifelong friendships through clubs, athletic teams, fine arts performances and residential living. The members of the Department of Student Life encourage this comprehensive student experience through educationally purposeful programming and serve alongside students as we continue to become the persons God created us to be. As students live, learn, grow, play, participate and pursue vocational calling, it is our hope that they become truly liberally educated.

For a complete listing of Student Life Policies see the [Student Guide](#)

Counseling Services

The Counseling Center at Houghton College provides personal counseling to all students desiring these services. The Center has professionally-trained counselors to help you with any of the above concerns. Appointments can be made to meet with a counselor by visiting the Center located on the first floor of the Campus Center. Counseling services are confidential. For more information please visit their website: <http://www.houghton.edu/students/counseling-services/>

Vocational Opportunities and Career Advising

Located in the Fleming-Farver VOCA Center. The VOCA Center helps students and alumni explore their vocational calling and develop their market readiness. For more information please view the VOCA website at: <http://www.houghton.edu/catalog/student-life/career-services/>.

Intercultural Students Office

The Intercultural Student Programs Office is devoted to helping MKs, TCKs, and international students have a successful experience at Houghton. Call us today at 800-777-2556 for more information. Please visit their website for additional information: <http://www.houghton.edu/students/intercultural-student-programs/>

Residence Life

Houghton College is a distinctively residential community. Most students, faculty, and staff live, learn, work, and worship within the tranquil setting of the village of Houghton. The residence life experience is a significant and integral aspect of the educational process. [Residence life](#), together with classroom, chapel, co-curricular activities and general campus interaction, provides an immediate setting for students to examine new or different perspectives, ideas and attitudes. For more information visit the Residence Life website: <http://www.houghton.edu/students/residence-life/>.

Safety and Security

The Houghton College Safety and Security Office is located on the first floor of the Campus Center. An officer is on duty 24 hours daily and can be reached by dialing 585.567.9333. Office hours are 8 a.m. to noon Monday through Friday on class days.

For all fire, ambulance or police emergencies, call 911.

SAFETY AND SECURITY MISSION STATEMENT

The Department of Safety and Security will serve our college community by promoting:

- Our mutual responsibility for campus safety
- Protection of campus property
- Plans to prevent crime
- Enforcement of college policies and the law

CAMPUS LAW ENFORCEMENT

The Safety and Security personnel of Houghton College are uniformed officers, employed by the college to protect Houghton College personnel and property. These officers have the authority to require identification, issue parking citations, and sign complaints with local and state police on behalf of Houghton College. They are on duty twenty-four hours a day every day of the year.

VEHICLE REGISTRATION/PARKING

Student owned or operated vehicles must be registered at the Safety and Security Office as soon as they are brought to campus. A parking policy established by the Student Government Association and the Student Life Council is in effect. This policy is provided upon request or upon registering a vehicle. Vehicles without proper registration are subject to fines. Repeat offenders may have their vehicle immobilized or towed at the owner's expense. All freshman and sophomore residents are required to park in the Fire Hall parking lot on Route 19. Juniors and seniors may explore further parking options by inquiring at the Safety and Security Office.

Regular permit fees vary in price from \$30-\$150 per year. Permits are available on a per semester basis at a slightly higher per year cost. Temporary permits for the Fire Hall lot will be issued free for the first week and \$10 per week thereafter. These fees help defray the cost of parking lot maintenance.

The college does not assume liability for vehicles on college property, regardless of cause (including vandalism and parking lot conditions).

FIREARMS, WEAPONS, AND FIREWORKS

The following items are considered weapons that must be stored in the Safety & Security Office **immediately** upon their arrival on campus. They can then be checked out for appropriate use:

- Any weapon powered by pump action, including any BB gun

- Any weapon powered by compressed air or CO2 cartridge including all paint ball guns
- Any firearm, including black powder weapons
- Any blowgun or similar weapon
- Any type bow (archery)
- Any Martial Arts weapon (i.e. nun-chuks, throwing stars, throwing knives, etc.)
- Any knife with a blade three (3) inches long or longer
- Any knife with a double-edged blade
- Any other item that may be deemed as dangerous at the discretion of the Office of Safety and Security.

Fireworks are not allowed on campus unless approved for a particular event. Students may not possess fireworks of any kind.

ILLEGAL ACTIVITY

Policy for Reporting Criminal Actions or Other Emergencies:

Each student and employee of Houghton College is expected to promptly report any criminal actions or other emergencies to the appropriate authorities. The Campus Safety and Security Office, Houghton Volunteer Fire Department and Houghton College Maintenance Department, as appropriate, will take immediate action to respond.

Residence hall directors or assistants act as the point of contact for all emergencies occurring within their residence hall. Appropriate authorities will act immediately on any report of criminal action or other emergencies; will investigate, categorize, and report on each instance; and will involve outside police agencies as appropriate.

BUILDING HOURS

Pertinent building hours follow: Campus Center is open 5:30 a.m. until 3:00 a.m. Academic buildings (Science, Chamberlain Center, Music, Stevens Art Studio, and Wesley Chapel) are open 7:00 a.m. till midnight Monday through Saturday, and 5:00 PM till midnight on Sunday. The Kerr-Pegula Fieldhouse and Nielsen Physical Education Center also have limited Sunday hours. The above hours are maintained when the college is in session. During breaks, these facilities will have limited hours if they are open at all.

SECURING PERSONAL BELONGINGS

Students are encouraged to keep valuables on their person or locked away at all times. Over 90% of thefts at Houghton are the result of valuables being left unattended. To minimize the risk of theft, keep student residences locked when unoccupied.

Students are strongly encouraged to check their parents' homeowner's insurance policy to confirm that their belongings are covered at college. This is usually a relatively inexpensive rider. College insurance covers only college property.

PEDESTRIAN SAFETY

The sidewalks of Houghton College are intended for pedestrians. While alternate, non-motorized forms of transportation (such as bicycles, skates, longboards, skateboards and scooters) are also permitted, the following procedures are in place for the safety of all:

- Pedestrians have the right of way on all sidewalks and paved paths. Those using bicycles, skates, longboards, skateboards or scooters should exercise caution near pedestrians, including announcing their presence when coming from behind and going slowly when coming around buildings or into other limited visibility areas.
- Cars and other motorized vehicles (aside from emergency and authorized vehicles) are not permitted on campus sidewalks at any time.
- Houghton College will occasionally allow trick riding in limited areas at the discretion of the Safety & Security Office. Permission for trick riding must be requested at least two business days in advance.
- Bicycles, skates, longboards, skateboards and scooters are not permitted to be used inside college buildings.
- While vehicles are required by law to yield for pedestrians in crosswalks, it is important that pedestrians continue to exercise extreme caution. This is especially true on Centerville Road, at the confluence of several roads and crosswalks. The steep grade of the road, combined with limited visibility and the possibility of slippery conditions can be very dangerous.
- Riding in the dark should be done only with extreme caution. New York State law requires that bicycles have a light, not just reflectors, for use after dark.
- The road between the Fancher Building and Rothenbuhler Hall is closed to all foot traffic. This hill is extremely dangerous for pedestrians due to limited visibility for drivers and the lack of shoulders on the roadside. Pedestrians (including runners) should use the footpath adjacent to Rothenbuhler Hall.
- For safety reasons running along route 19 should be done with caution. Students should run with a companion or in groups (single file for safety) and preferably with reflective clothing.
- The following campus locations are for pedestrian use only. For safety reasons, bicycles, skates, longboards, skateboards and scooters should be walked through these areas.
 1. Arcade (tunnel) through the Center for the Arts
 2. Walking path between Stevens Art Studios and Centerville road
 3. Walking path from the Campus Center to Rothenbuhler (including past the Rothenbuhler bridge and the path toward the Fire Hall parking lot)

Spiritual Life

Spiritual Life at Houghton is designed to create a rhythm of Biblically-based worship practices that sustains our life together and helps students, faculty and staff encounter God and live deeply Christian lives.

The main way this happens is through chapel. Chapel meets Mondays, Wednesdays and Fridays from 11:05-11:45 AM. Students, faculty and staff join together to worship through various types of song and hearing the Word of God read and preached. Speakers come from both on and off campus, and the music is quite varied, ranging from traditional hymnody to our chapel house band

to gospel music to contemplative piano/guitar/cello music. Students are required to attend 2/3 of chapel services, but we encourage students to attend them all as a way of building reflection and worship into their day.

In addition, every day that classes meet we have morning prayer at 8 AM and evening prayer at 4:45 PM. During morning prayer, we read Old and New Testament Scriptures, sing a hymn and pray. In the evening we sing a song, offer a prayer of confession and read the Word together. Mercy Seat, a student-led service of acoustic praise and worship music as well as Scripture reading, meets at 8 PM every day classes are in session. Morning and evening prayer and MercySeat are totally optional.

Between the four services, there are 504 opportunities to gather for corporate worship every academic year in Houghton—those that involve themselves often grow spiritually in significant ways.

On Sunday night, Koinonia (another student-led service of praise and worship music) meets.

Each year, Spiritual Life holds a few special events:

CLEW (Christian Life Emphasis Week) meets during the 2nd week of classes during the fall semester. The purpose of CLEW is to help us engage and grow spiritually.

The Faith and Justice Symposium is held in late September, and encourages us to think about how our faith intersects with global issues.

New Vision Week is run by students in the student organization, Global Christian Fellowship, usually in late October. We hear missionaries from around the world talk about what God is doing through the work of missionaries around the world.

During the third week of the spring semester, **Praxis** week helps us think through a particular theological issue and how it impacts our life together in Houghton. In the last few years, themes have included “feasting and fasting,” “solitude and community” and “freedom and responsibility.”

In addition, regular church attendance and participation in the life of a church community is strongly encouraged!

Student Health Services

The mission of the Student Health Center (SHC) includes the treatment of illnesses and injuries, and the promotion of health and wellness in an environment that reflects the love and compassion of Christ.

The Student Health Center staff desires to help students in any way possible in order to support them during their time here at Houghton. We hope that students who have health concerns will feel free to come by and speak with us. It is a privilege to serve students in this place and we always appreciate suggestions as to how we can do it better.

LOCATION

The SHC is conveniently located in the lower level of Gillette Residence Hall and can be accessed from the parking lot next to the Campus Center. It is staffed by registered nurses and an on-site physician and is open Monday through Friday, 8:30 a.m. to 5 p.m.

SERVICES

Services available at the Health Center include unlimited access to our nursing staff while the SHC is open for the assessment and treatment of minor illnesses and injuries. Allergy injections, administration of immunizations, phlebotomy, and daily medication delivery from the local pharmacy are also part of the services offered at the Health Center. Appointments can be made with the college physician as needed following a nursing evaluation. Same day appointments can usually be accommodated. All onsite nursing and physician services (with the exception of admission physicals) are covered through an annual health fee. Charges for medications, laboratory testing, radiology and other ancillary or off-site services are billed to the student's insurance company by the providing facilities, and fees for those services, therefore, may apply, according to the terms outlined in an individual's insurance plan. Referrals are made to local physicians, area specialists, or ER/hospitals as needed.

AFTER HOURS

When the SHC is closed, students with emergent health needs should contact 911. If the issue is not life threatening, questions should be directed to Residence Life Staff (RA, RD) who have a list of contacts that can be used if needed to assist in decision making.

INSURANCE POLICY

Houghton College requires that all students taking at least 12 hours of credit provide proof of health insurance coverage. The college makes a reasonably priced, limited benefit Accident and Illness Policy available to students who do not have insurance coverage otherwise. The college operates under an “opt out” policy, meaning that students will be automatically enrolled in the college negotiated plan (and the charge for such will be applied to their student account) *unless* they submit a waiver providing information regarding alternate insurance coverage. Because a person’s insurance coverage may change periodically, a waiver must be submitted *each year* before matriculation can occur. The college accident insurance is mandatory for all intercollegiate athletes and is an option for all other students. The Health Center staff is available to answer questions and to assist in the filing of claims if needed.

MEDICAL LEAVE

If a student has a medical condition (physical or psychological) that interferes with that student’s ability to perform academically, or if that student’s behavior/condition is such that other students are being hindered in their academic/living environment, a medical leave from the college may be granted. Such leave is granted by the dean of students. This is not a disciplinary action, and students given medical leave are encouraged to return to the college to continue their studies as soon as they are able to do so. An evaluation may be required to ascertain whether the behaviors/conditions that warranted the granting of the leave have been sufficiently addressed.

IMMUNIZATION REQUIREMENTS

In keeping with New York State's stringent Public Health Law, all students are required to provide documented proof of immunization (2 doses of vaccine) or immunity (by blood work) to measles, mumps and rubella. In addition, state law requires that a waiver form be completed in regard to the meningococcal vaccine indicating a specific choice to either receive or decline the immunization. The Health Center strongly recommends that students living in the dormitories receive this vaccine. An up-to-date tetanus/diphtheria immunization is also required. TB testing is recommended but is up to the discretion of the student’s physician based on risk profile. Hepatitis B immunization is recommended. In addition to the immunization records, an admission physical/health form is required to be submitted prior to the beginning of classes. Failure to meet these requirements may result in being restricted from attending classes.

Student Activities Office

Exploring, competing, serving, playing, climbing and worshipping: students in Houghton's unique setting augment their central educational experience through participation in a vibrant community life. The Student Activities Office seeks to enrich the student experience through a various means. Some of our activities encourage service, some contribute to the educational mission of Houghton College and others are for pure fun. Students have the opportunity to cultivate their leadership skills, to participate in cultural, athletic, co-curricular and spiritual opportunities and to join or lead one of 30+ campus clubs and organizations (see below). In addition to a wide variety of options, Houghton's 1300 acres of woodland offers rich opportunities for exploring on horseback, cross-country skis and hiking trails. Our ropes and initiatives course is used for physical education, leadership development and draws visitors from around Western New York.

Our rural location both contributes to and necessitates one of the greatest distinctives of our students' experience - a dynamic, residential campus community. It is the goal of the Student Activities Office to offer and oversee a comprehensive and vibrant array of experiences and opportunities which reflect the ethos of our academic community.

CAMPUS ACTIVITIES BOARD (CAB)

Coordinated by the Student Activities Office, this board works with groups across campus to coordinate a wide array of quality on-campus entertainment reflecting the Christian character and geographic setting of our community.

CAMPUS CENTER

The Van Dyk Lounge is first and foremost for the use and enjoyment of Houghton College students, employees, and alumni. The Campus Center lower level has foosball games, pool, and table tennis that are available for college student use.

CLUBS AND ORGANIZATIONS

While academic excellence is emphasized at Houghton, we realize the importance of students being involved in activities to complement their classroom education. Clubs and organizations provide opportunities for students to explore their interests and to take leadership roles. By being involved in co-curricular activities, students begin to clarify career goals and to understand how their education can be translated into action.

STUDENT GOVERNMENT ASSOCIATION (SGA)

The SGA, under the leadership of its officers and through its various working committees, provides an opportunity for students to become directly involved in campus decision making. In addition, its members attempt to resolve campus problems and serve as a communication channel between student organizations and faculty, staff, and administration. The Student Government Association creates an atmosphere for the discussion of campus issues that contribute to the growth of each member of the student body.

Student Clubs and Organizations

American Choral Directors Association (ACDA) - works to promote choral singing and helps to organize the development of choral groups of all types in schools, churches, and on campus.

Allegany County Outreach (ACO) - provides opportunities for students to share the love of our Savior Jesus Christ with children throughout our county through establishing and maintaining friendships. The “big brother/ big sister” program is designed to foster relationships between college students and the children of Allegany County. This program includes group events and parties as well as one-on-one involvement of students with their little “brothers” and “sisters.” College facilities and cultural events are also available through invitations to eat together on campus and attend athletic events, plays, and religious programs.

Artist's Guild - fosters an appreciation of the visual arts and their effect on our lives through use of the Chapel Gallery, art displayed in The Coffee House, museum excursions, film showings, and communication with local artists.

Black Heritage Club – enriches the campus through providing events to celebrate cultures represented on campus.

Climbing Club - provides a safe, Christ-oriented atmosphere where climbing, leadership, encouragement and hard skills are developed and promoted both in the gym and off-campus trips.

The Environmental Club - works to encourage awareness and action on campus for environmental issues.

Encore – a student-run theater club open to everyone, produces several shows and theatrical events each year, including skits, one-act plays and full-length productions. Encore also strives for variety in its play selection, performing shows from many different time periods and countries.

Equestrian Society - The purpose of this society is to create a Christian environment in which equestrian students work together to increase public awareness of their curriculum and its services and to enhance opportunities for students and community members.

Gadfly Society - aims to provide a forum for voluntary co-curricular endeavors of interest to philosophy majors, minors and other philosophically-minded persons and to promote awareness of the relevance of philosophical perspectives to issues.

Global Christian Fellowship - GCF's purpose is to bring the community and campus to a greater understanding of, and commitment to, their place in God's mission for this world.

Gospel Choir – enriches our campus through helping students express our Christian heritage through multicultural fellowship, celebrating the richness of gospel music. Our purpose is not geared only toward entertainment, but it is to expose the student body, faculty, and staff to this style of worship and praise.

Imitators of Christ - promotes nurturing relationships between students and community members for the spiritual growth of those involved.

Intercultural Student Association (ISA) - promotes cultural awareness on campus and aids in the cultural adjustment of international students, third-culture kids and American-born minorities.

Journey's End Tutors – Houghton students are partnered with refugees that are new to the country through Journey's End Refugee Services. Volunteer students spend a few hours with refugee families for eight Saturdays each semester. They help these families, especially the children, to learn English and acclimate to the American educational system as well as some life skills.

MercySeat Ministries - In submission to the Holy Spirit and the Word of God, MercySeat ministries seeks to encourage people to passionately pursue God both corporately and individually.

Music Educators Club - acquaints students with the rewards and challenges of music and its teaching in contemporary society and provides information, resources, and exposure to students for professional expertise.

Paddle Sports - seeks to provide recreational opportunities for students that will enhance their college experience.

Psi Chi - a psychology honor society that provides students with learning experiences, work opportunities and summer opportunities in the field of psychology and encourages students to view psychology with a Christian perspective.

Psychology Club - Seeks to encourage students to integrate psychology and the Christian faith, provide learning experiences that will be educationally illuminating, and help prepare students for a future in psychology.

Gold Bar Club (ROTC) - Houghton College Army ROTC is dedicated to training the future leaders of the United States Army as well as training good leaders for Christian service. Army Reserve Officer Training Corp (ROTC) is open to all Houghton College students without a commitment to the US Army for the first two years. After two years (Junior academic status) it is necessary to make a decision whether or not to serve in the US Army.

Salvation Army Student Fellowship - The Salvation Army Fellowship seeks to encourage spiritual growth and commitment to Christian service.

Sigma Zeta - a math and science honor society that encourages and fosters the attainment of knowledge in the natural and computer sciences and mathematics and recognizes the attainment of high scholarship among those in membership.

Ski Club - provides opportunities to novice and experienced skiers throughout western New York.

Society for Human Resource Management-Houghton College Chapter - The purpose of the chapter is to provide students with the opportunity to gain knowledge and insight into the effective management of personnel in the field of Human Resource Management through affiliation with the Niagara Frontier Chapter of SHRM and the National SHRM organization.

Sociology Club - is open to any student who is interested in sociology. It provides learning experiences, service opportunities, and informs students of career opportunities and summer opportunities in the field of sociology.

Teachers for Today and Tomorrow (TOTT) - as scholar-servants we aim to share God's love by building a support system within the local education community to inform current and future education students about the rewards and challenges of the teaching profession.

Youth for Christ - works to communicate the life-changing message of Christ to every young person in the county through evangelism with the intent to bring the spiritual salvation of Jesus Christ to the youth of the Southern Tier area and to encourage and foster spiritual growth in the tenets of Christianity. Students provide leadership, counsel and organization for Youth for Christ – Campus Life clubs.

Young Life - is a relational outreach to kids, with the message of love and forgiveness of Jesus Christ. Young Life is based on the idea that we, as Christians, need to go on their turf, to go where the kids are. When doing this, we attempt to build relationship with high school students (Young Life) and junior high students (Wyld-life), so that we might earn the right to be heard by them. The goal of this ministry is to introduce kids to Jesus and get them back involved in their local church.

RESIDENCE HALLS

- Gillete Event Planning Committee
- Lambein Event Planning Committee
- Rothenbuhler Event Planning Committee
- Shenawana Event Planning Committee
- Townhouse Leadership Council

PUBLICATIONS

- *Boulder* (Yearbook)
- *Drawing Board* (Student Comic Publication)
- *The Lanthorn* (Literary/Art publication)
- *STAR* (Student newspaper)

Other Opportunities for involvement

Artist Series - The Houghton College Artist Series features nationally and internationally known artists, groups and productions which vary from year to year.

College Choir – The College Choir is composed of students chosen for musical and vocal competence by audition. Concerts are given each year, including an extended tour during spring break. The choir rehearses daily.

Philharmonia - The Philharmonia is made up of qualified instrumentalists. Representative selections of classical, romantic, and modern literature are performed. Membership is by audition and permission of the conductor.

Symphonic Winds - Symphonic Winds provides students the opportunity to perform significant symphonic band literature. Concerts are performed on and off campus. Membership is open to advanced wind and percussion players and is by audition and permission of the conductor.

Houghton College Faculty

Endowed and Honorary Chairs:

Mabel Barnum Davidson Distinguished Professor in Fine Arts

The Mabel Barnum Davidson Distinguished Professor in Fine Arts award was established in 1973 to celebrate and honor faculty members who show evidence of professional growth and development, demonstrated ability as an effective teacher, and who provide a clear statement and evidence of personal application of the philosophy of Christian liberal arts. The awardee is nominated from among colleagues and approved by the members of the area. The award carries with it a medallion to be worn at official convocations.

The Mabel Barnum Davidson Distinguished Professor in Fine Arts for 2014-2017 is Professor Theodore J. Murphy.

Robert I. Davidson Distinguished Professor in History & Social Science

The Robert I. Davison Distinguished Professor in History and Social Science award was established in 1973 to celebrate and honor faculty members who show evidence of professional growth and development, demonstrated ability as an effective teacher, and who provide a clear statement and evidence of personal application of the philosophy of Christian liberal arts. The award carries with it a medallion to be worn at official convocations.

The Robert I. Davidson Distinguished Professor in Fine Arts for 2014-2017 is Professor Ronald J. Oakerson

Horne-Blanchard Chair in Music

The Horne-Blanchard Chair in Music was established in 2014 through a generous gift from Dr. David and Mrs. Allene (Horne) Blanchard to honor and celebrate the gifts of music and teaching. Mrs Allene (Horne) Blanchard, a music major at Houghton, graduated as a member of the class of 1957. A life-long pianist and teacher Mrs Blanchard wanted to help others have the opportunity to study with gifted faculty as she had. The award carries with it a medallion to be worn at official convocations, funding for the faculty member's salary, and provides additional funding to use in the pursuit of academic excellence.

The Horne-Blanchard Chair for 2014-2019 is Professor William J. Newbrough.

Hoselton Chair of Private Enterprise & Ethics

This honorary chair was created with the intention of promoting thoughts and dialogue on the value and benefits of free markets and on the importance of a moral foundation for the effective functioning of free markets. Potential topics are broad, and proposals which examine faith integration, social justice issues, moral and ethical perspectives, and global issues are especially

encouraged. The award carries with it a medallion to be worn at official convocations and a small stipend for the named individual.

The Hoselton Chair for 2014-2017 is Professor Robert A. Black.

Alan and Florence Johnson Distinguished Chair in Health Sciences

In appointing this distinguished chair, we look for evidence of excellence in the field of study, extraordinary investment in teaching and mentoring, and mature leadership and service to the disciplines in the Health Sciences. In this award, we are celebrating distinguished contributions to a Houghton education in a truly interdisciplinary field. The faculty member must be someone who not only has depth of expertise in a contributing discipline, but the ability to contribute strongly to conversations among the multiple fields that serve students preparing for careers in Health Sciences. Also, in an era when careers in health sciences increasingly bring practitioners face to face with difficult ethical questions, this distinguished chair acknowledges the importance of professors who can guide students in exploring deeply Christian responses to issues in the Health Sciences of our time. The award carries with it a medallion to be worn at official convocations.

The Alan and Florence Johnson Distinguished Chair in Health Sciences beginning 2014 is Professor Karen E. Torraca.

The Moreland Chair in Biology

This honor is extended to a member of the natural science faculty who best exemplifies the standard of academic excellence set by Dr. Moreland. Nominations are made from among faculty members who submit a proposal for research or writing project, and approved by members of the academic area. This award carries with it a medallion to be worn at official convocations and an endowed stipend for research in collaboration with students.

The Moreland Chair for 2014 - 2016 is Associate Professor Aaron M. Sullivan.

Van Gordon Chair in Communication and Writing

The Van Gordon Chair was established to honor eligible faculty members whose primary responsibility in communication or writing is to engage in projects that benefit or enhance one or more of the following: The faculty member's professional development, the instruction and quality of the communication and/or writing majors, cooperation and coordination between those programs, and public awareness of Houghton College. The award is chosen among proposals submitted by eligible faculty members, and approved by members of the academic area and the Faculty Development Committee. The award carries with it funds relevant to the project proposal.

The Van Gordon Chair for 2015-18 is Professor Laurie A. Dashnau.

CURRENT FACULTY

Kurt M. Aikens (2014)**Assistant Professor of Physics**

BS, Houghton College, 2009; MS, PhD, Purdue University College of Engineering, 2010, 2014

A. Cameron Airhart (1987)**Professor of History; Dean of Houghton Buffalo**

BA, Northwest Nazarene College, 1976; MA, PhD, University of California (Santa Barbara), 1979, 1985

Laura Alexeichik (2011-2012; 2015)**Interim Assistant Professor of Recreation**

BS, Houghton College, 2001; WEd, Westminster College, 2008; PhD, Indiana University (anticipated 2015)

Glen E. Avery (1987-93; 1998)**Instructional Technology Librarian; Professor Equivalent**

BA, Houghton College, 1976; MBA, Plymouth State College, 1980; MLS, EDM, University at Buffalo, 1993, 2001; CAGS, Regent University, 2009

Margery L. Avery (1988)**Director of Academic Records**

BA, University of Southern Maine, 1972

Brandon Bate (2014)**Assistant Professor of Mathematics**

BA, Houghton College, 2004; MA, Boston College, 2007; PhD, Rutgers University, 2013

Kenneth J. Bates (Spring 1989)**Associate Professor of Business; Chair, Department of Business & Economics; Senior Professional in Human Resources**

BS, Houghton College, 1971; MBA, Loyola College, 1980

Gary Baxter (1979-1982, part-time; 1982)**Professor of Art; Chair, Art Dept**

BA, SUNY College at Geneseo, 1983; MFA, Rochester Institute of Technology, 1985

Wendy R. Baxter (2007)**Counselor; Assistant Professor**

BA, Houghton College, 1978; MSW, SUNY Buffalo, 1996

Jason Bintz (2015)**Assistant Professor of Applied Mathematics**

BA, Covenant College, 2003 MDiv, Gordon-Conwell Theological Seminary, 2008; MS, University of Tennessee, 2013; PhD, University of Tennessee, (Anticipated 2015)

Robert A. Black (1991)**Professor of Economics; Hoselton Chair (2014-2017)**

BA, West Virginia Wesleyan College, 1972; MA, PhD, West Virginia Univ, 1979, 1984

Andrea N. Boon (2006, part-time)**Assistant Professor of Recreation; Co-Chair, Department of Sport, Recreation & Wellness**

BS, Houghton College, 2000; MS, SUNY Brockport, 2008

David A. Brubaker (2006, part-time)**Assistant Professor of Biology; Director of Health Services; College Physician**

BS, Houghton College, 1990; MD, SUNY Health Science Center, 1994

Deborah S. Bruce (2013)**Assistant Professor of Literacy Education**

BA, Otterbein College, 1989; MAT/MAT/PhD, Kent State University, 1992, 1993, 2012

Jonathan P. Case (2005)**Professor of Theology**

BA, MA, Southern Nazarene University, 1983, 1986; MDiv, Nazarene Theological Seminary, 1989; PhD, Luther Seminary, 1995

Naomi L. Christensen (2015)**Instructor of Accounting**

BS, Houghton College, 2008; CPA, Washington State

Martin J. Coates (2007 part-time; 2013)**Assistant Professor of Education and Field Placement Coordinator**

AAS, Genesee Community College, 1987; BS, MA, State University of New York at Brockport, 1993; 2004

Marlene G. Collins-Blair (2005)**Associate Professor of Spanish; Associate Dean of Distance Education**

BA, MPhil, PhD, University of the West Indies, 1997, 1999, 2005

Judy A. Congdon (1991)**Professor of Organ**

BMus, Wheaton College, 1975; MMus, University of Colorado, 1977; Diploma, Hochschule fuer Musik, Frankfurt/Main, Germany, 1979; MA, DMA, Eastman School of Music, 1990; DWS, Robert E. Webber Institute for Worship Studies, 2013

Ryann Cooley (2013)**Associate Professor of Digital Media and Photography**

BA, Brooks Institute of Photography, 1993; MFA, School of Visual Arts (New York), 2012

Amanda Young Cox

Ken Crane

Laurie A. Dashnau (2000)

Professor of English; Van Gordon Chair in Communication and Writing (2015-2018)

BA, Nazareth College, 1987; MA, PhD, Miami University of Ohio, 1989, 1996

Marcus W. Dean (2003)

Associate Professor of Intercultural Studies; Chair, Department of Intercultural Studies; Director of Off-Campus Studies, Associate Dean for Religion and Global Service

BA, Indiana Wesleyan University, 1981; MDiv, ThM, Asbury Seminary, 1987, 1988; PhD, Trinity Seminary, 2001

Sarah B. C. Derck (2012)

Assistant Professor of Old Testament

BA, Indiana Wesleyan University, 1999; MA, Nazarene Theological Seminary, 2002; PhD, Nazarene Theological College University of Manchester, 2012

William R. Doezema (1979)

Professor of History

AB, Calvin College, 1969; MA, PhD, Kent State University, 1974, 1978

David Drake

B.A. Baptist Christian College, 1986; M.A. Trinity College and Seminary, 2014

Deone Drake

B.A. Baptist Christian College, 1982; M.A. Liberty University, 1988; D.Min. Trinity College and Seminary, 1999

Jonathan Drake

B.A. Liberty University, 2008; M.Div. Liberty University, 2011

Richard K. Eckley (1990)

Professor of Theology; Faculty Athletic Representative

BS, United Wesleyan College, 1980; MDiv, Asbury Theological Seminary, 1983; ThM, Princeton Theological Seminary, 1985; PhD, Duquesne University, 1998

Constance R. Finney (1981-86, part-time; 1986)

Professor of Education

BA, Houghton College, 1978; MS, SUNY College at Buffalo, 1981; EdD, SUNY at Buffalo, 1994

Carlton D. Fisher (1985)**Professor of Philosophy**

BA, Marion College, 1974; MA, Western Kentucky University, 1978; MA, PhD, University of Notre Dame, 1980, 1984

Cathy E. Freytag (2003)**Professor of Education; Associate Dean for Education and Physical Education**

BS, Carson-Newman College, 1990; MA, University of Alabama, 1991; EdD, University of Central Florida, 2003

J. Thomas Fuoco**Douglas M. Gaerte (1988)****Professor of Communication; Chair, Department of Communication**

BS, Grace College, 1983; MA, PhD, Indiana University, 1987, 1995

Gerald Gillis

B.A. University of Georgia; M.Div. New Orleans Baptist Seminary, 2000; D. Min. Gordon- Conwell Theological Seminary, 2008

Patricia Gingras (2011 part-time; 2013)**Assistant Professor and Coordinator of Music Education**

BME, MM, University of New Mexico, 2002, 2004; PhD, Eastman School of Music, 2013

Deanna Hand (2002)**Instructor of Physical Education; Athletic Trainer**

BS, University of Pittsburgh, 1998; MS, University of West Florida, 2000

Benjamin Hegeman (2006)**Assistant Professor of Intercultural Studies**

BA, Wilfred Laurier University, 1985; BRS, MDiv, Central Baptist Seminary & College, 1985, 1986; PhD, University of Utrecht, 2000

Donell Brandon Hoffman (2006)**Associate Professor of Physics; Chair, Department of Physics/Earth Science**

BS, Northwest Nazarene University, 2000; PhD, University of California, Davis, 2007

Kim Holet

B.A. University of Buffalo, 1996; M.A. Liberty University, 2011

JooYoung Hong (2013)**Assistant Professor of Education**

BS, Kyungpook National University (S. Korea), 2003; TESOL Cert, Sookmyung Women's University (S. Korea), 2004; MS, PhD, University of Kansas, 2008, 2013

David A. Howard (1969; 2009 part-time)

Professor of History

BA, Gordon College, 1965; MA, PhD, Duke University, 1967, 1972

Wei Hu (1997)

Professor of Mathematics and Computer Science

BS, Zhejiang Teacher's University, 1982; MS, Hangzhou University, 1985; MS, Michigan State University, 1994; MS, PhD, University of Kentucky, 1996, 1997

Mitchell Hutchings (2013)

Assistant Professor of Voice and Opera

BMus, Western Carolina University, 2007; MM, Florida State University, 2010; Vocal Pedagogy Certificate, University of Kentucky, 2013

Sarah Hutchings (2013 Adjunct; 2015 Tenure Track)

Assistant Professor of Music Theory and Composition

BMus, Western Carolina University School of Music, 2007; MMus, Florida State University College of Music, 2010; DMA, University of Cincinnati Conservatory of Music, 2013

David M. Huth (2006)

Associate Professor of Visual Communication and Media Arts

BA, Houghton College, 1991; MFA, Rochester Institute of Technology, 2005

Lori L. Huth (2004)

Associate Professor of Creative Writing

BA, Houghton College, 2000; MA, SUNY University at Buffalo, 2001

Asher John (2015)

Interim Visiting Professor of Linguistics

BA/MA, Bahauddin Zakariya University, 2001; MA, PhD (pending) Ball State University, 2009; 2015

Sandra D. Johnson (2000)

Athletic Trainer/Physical Education Instructor; Chair, Department of Physical and Health Education; Co-Chair, Department of Sport, Recreation & Wellness

BS, Houghton College, 1999; MEd, University of Akron, 2000

Sharon L. Johnson (2004)

Assistant Professor of Piano; Accompanying & Ministry Team Coordinator

BMus, MM, University of North Carolina, 1983, 1985; DMA, University of Minnesota, 2004

Jill E. Jordan (2009, PT 2014)**Assistant Professor of Mathematics**

BA, Houghton College, 1999; MA, PhD, BrynMawr College, 2002, 2005

John Michael Jordan (2009 part-time; 2013)**Dean of the Chapel and Assistant Professor; Chair, Department of Biblical Studies, Theology, and Philosophy.**

BA, Houghton College, 1999; MDiv, Eastern Baptist Theological Seminary 2002; PhD, Drew University, 2009

Pil Joon Kim (2015)**Assistant Professor of Business Administration**

BBA, MBA, PHD doctoral coursework, Soongsil University, 1995, 1998, 2002; MS, PhD Candidate, Illinois Institute of Technology, 2007, 2015 pending

David Kinman (2008)**Associate Professor of Spanish; Chair, Department of World Languages and Literatures**

BA, Geneva College, 1973; MA, Indiana University of PA, 1977

Eli J. Knapp (Spring 2009)**Assistant Professor of Intercultural Studies**

BS, Houghton College, 2000; MS, University of California-Santa Barbara, 2003; PhD, Colorado State University, 2009

Ryan Kozey

B.A. Bowling Green University; M.A. Bowling Green University; Ph.D. University of Buffalo 2008; M.A. Liberty University 2015

Margaret Kuhl**Janette LaBarre (2015)****Interim Instructor of Instrumental Music**

BS, MMus, Roberts Wesleyan College, 2007, 2009;

Kristina LaCelle-Peterson (2001)**Associate Professor of Religion**

BA, Houghton College, 1982; MDiv., Gordon-Conwell Theological Seminary, 1987; MPhil., PhD, Drew University Graduate School, 1992, 2001

Daryl Largis

B.S. Montana State University, M.A. Liberty University, 2011

Michael D. Lastoria (1982, PT 2015)**Senior Counselor**

BS, Rutgers University, 1970; MS, University of Nebraska (Omaha), 1974; EdD, Loyola University (Chicago), 1982; Clinical Internship, Marriage and Family Therapy, University of Rochester, 1987-92; Clinical Member, American Assoc. of Marriage and Family Therapists

David B. Lewis (1993)**Associate Professor; Head Womens Soccer Coach; Athletic Administration**

BA, The King's College, 1978; MDiv, DMin, Gordon-Conwell Theological Seminary; 1982, 1992

Benjamin J. B. Lipscomb (2002)**Professor of Philosophy; Director of Honors**

BA, Calvin College, 1996; MA, PhD, University of Notre Dame; 1999, 2002

Susan Bruxvoort Lipscomb (2005)**Associate Professor of English; Humanities Director; Integrative Studies Director; Interim Associate Dean for Arts and Letters; Chair, Department of English and Writing**

BA, Calvin College, 1996; MA, University of Chicago, 1997; MA, PhD, University of Illinois, Urbana Champaign, 1998, 2005

Don B. Little (2009)**Associate Professor of Intercultural Studies**

BA, University of British Columbia, 1984; Diploma in Christian Studies, Regent College, 1985; M.Ed, University of British Columbia, 1992; DMin, Gordon-Conwell Theological Seminary, May 2008

Adam Luebke (2014)**Associate Professor of Vocal Music and Conducting, and Director of Choral Activities**

BMus, St.Olaf College, 2002; MMus, Westminster Choir College of Rider University, 2004; Ph.D.,

Anton Machleder**Carrie Magin (2014, 2015 FT)****Assistant Professor of Music Composition & Theory**

BA, BMA, University of Michigan, 2004; MMus, DMA, University of Cincinnati Conservatory of Music, 2011, 2013

Katie Martin (2015)**Assistant Professor of Voice**

BMus, University of Montana, Missoula, 2007; MMus, DMA, University of Southern California, Los Angeles, 2010, 2015

Angela McBrearty

Eva Meilaender

Peter C. Meilaender (2001)

Professor of Political Science; Chair, Department of History and Political Science

BA, Kenyon College, 1993; MA, PhD, University of Notre Dame, 1997, 1999

Daniel C. Minchen (2006, part-time 2011)

Associate Professor of Communication and Business

BA, SUNY College at Geneseo, 1968; MS, Syracuse University, 1999

Shirley A. Mullen (2006)

President; Professor of History

BA, Houghton College, 1976; MA, University of Toronto, 1977; PhD, University of Minnesota, 1985; PhD, University of Wales, 2000

Madison T. Murphy (2014)

Assistant Professor of Media Arts and Visual Communication

BA, Houghton College, 2011; MFA, Savannah College of Art and Design, anticipated June 2014

Nancy L. Murphy (2007, part-time 2010, full-time 2015)

Counselor; Title IX Coordinator

BA, Mount Vernon Nazarene College, 1980; MA, Ohio State University, 1982

Theodore J. Murphy (1986)

Professor of Art; Mabel Barnum Davidson Distinguished Professor of Fine Arts (2014-2017)

BA, Mount Vernon Nazarene College, 1980; MFA, Ohio State University, 1983

William J. Newbrough (2002)

Professor of Piano; David and Allene Horne-Blanchard Endowed Chair (2014-2019)

BA, University of California at Berkeley, 1994; MM, DMA, AD, Peabody Conservatory of Music/Johns Hopkins University, 1995, 1998, 2000

Ronald J. Oakerson (1992, part time 2013)

Professor of Political Science; Robert I. Davidson Distinguished Professor in Social Sciences (2014-2017).

BA, Taylor University, 1966; MA, PhD, Indiana University, 1973, 1978

Terence P. Paige (1994)

Professor of New Testament

BA, Seattle Pacific University, 1982; MCS, MDiv., Regent College, 1986; PhD, University of Sheffield (England), 1994

Meic Pearce (2004)**Professor of History; Director of the East Meets West Honors Curriculum**

BA, University of Wales, 1978; DMS, Polytechnic of Wales, 1981; MPhil, DPhil, Oxford University, 1989, 1992

Kim Pool (2014)**Director of Vocational Opportunities & Career Advising (VOCA)**

BA, Hanover College, 1998; MS, Southern Illinois University, 2000

Jamie L. Potter (2008)**Associate Professor of Biology; Director of Pre-Medical Education**

BS, Olivet Nazarene University, 1999; MS, University of Wisconsin-Madison, 2002; PhD, Southern Illinois University, 2008

Ransom Poythress (2014)**Assistant Professor of Biology**

BS, California Institute of Technology, 2006; Special Student in Apologetics and Philosophy, Westminster Theological Seminary, 2007; PhD, Boston University, 2013

John M. Rhett (1995)**Professor of Art**

BFA, MFA, Virginia Commonwealth University, 1979, 1995

John M. Rowley (2008)**Associate Professor of Chemistry**

BS, Houghton College, 2003; MS, PhD, Cornell University, 2005, 2008

Michael Selig (2015 (Interim))**Visiting Assistant Professor of Chemistry**

BS, MS, Cornell University, 2000, 2004; PhD, University of Copenhagen DK, 2014

Robert B. Smalley (1988)**Assistant Professor of Recreation**

BS, Houghton College, 1978; MEd, State University of New York at Buffalo, 1985

Richard D. Stegen (1981)**Professor of Psychology**

BA, Houghton College, 1969; MA, Temple University, 1972; PhD, St. John's Univ., 1982

David Stevick (2008)**Director of Library and Information Resources; Associate Professor Equivalent**

BA, Houghton College, 1991; MSLS, Clarion University of Pennsylvania, 2002

William Christopher Stewart (1993)

Professor of Philosophy (Leave of absence 2013-16)

BA, Wheaton College, 1982; MA, Western Kentucky University, 1988; MA, PhD, University of Notre Dame, 1989, 1992

Larissa Strappello (2014)

Equestrian Center Facility Manager and Instructor

BS, Houghton College, 2008

Aaron M. Sullivan (2004)

Associate Professor of Biology; Chair, Department of Biology; Moreland Chair (2014-2016)

BS, Mount Vernon Nazarene University, 1997; MS, Southwest Missouri State University, 1999; PhD, SUNY Binghamton, 2004

Sunshine R. Sullivan (2005, part-time; 2006)

Associate Professor of Education; Chair, Department of Education; Faculty Development Coordinator

BA, Mount Vernon Nazarene University, 1997; MS, Binghamton University, 2003; PhD, University at Buffalo, 2012

Armenio Suzano, Jr. (2014)

Director of the Greatbatch School of Music; Area Associate Dean for Music; Associate Professor of Music History

BM, Austin State University, 1997; MM, Northwestern University School of Music, 1998; DMA, University of Michigan School of Music, 2002.

Cynthia S. Symons (1994)

Professor of Psychology

BA, Utica College, 1986; MS, PhD, Syracuse University, 1990, 1992

Alicia Taylor (2014, 2015)

Assistant Professor of Art

BA, Roberts Wesleyan College, 2009; Certificate in Arts Management, MFA, SUNY Brockport, 2013

Karen E. Torraca (2007)

Professor of Chemistry; Chair, Department of Chemistry; Alan and Florence Johnson Distinguished Chair in Health Sciences (Installed 2014)

BS, Houghton College, 1993; PhD, University of Florida, 1999

John F. Van Wicklin (1983)

Professor of Psychology

BS, Wheaton College, 1968; MA, Columbia University, 1971; PhD, New School for Social Research, 1981

Rintaro Wada

James F. Wardwell (1989)

Associate Professor of English

BA, Gordon College, 1979; MDiv, Eastern Baptist Theological Seminary, 1982; MA, Villanova University, 1984; PhD, University of Rhode Island, 1989

Jeffrey L. Wiesman (2013)

Associate Professor of Education

BS, Wheaton College, 1993; MA, North Central College, 2002; EDD, Aurora University, 2007

Bradley E. Wilber (1997)

Librarian: Reference, Instruction and Cataloging

BA, Houghton College, 1991; MLS, Syracuse University, 1996

Rebecca Williams (2015)

Assistant Professor of Biology

BEd, BSc (H), BSc (G), University of Windsor, 2008; PhD, University of Windsor, 2014

John C. Wise (2013)

Director of Institutional Research and Assessment

BA, State University of New York at Albany, 1992; MS, Pennsylvania State University at Malvern, 1997; PhD, Pennsylvania State University at University Park, 2002

James M. Wolfe (1988)

Professor of Biology

BA, Gordon College, 1975; MS, University of Oklahoma, 1978; PhD, University of Rhode Island, 1988

Dustin Woodard

Linda Mills Woolsey (1999, part-time; 2004)

Vice President for Academic Affairs; Professor of English

BA, Houghton College, 1974; MA, SUNY Binghamton, 1976; PhD, Drew University, 1989

Stephen A. Woolsey (1999)

Professor of English

BA, Houghton College, 1973; MA, SUNY Binghamton, 1976; PhD, Drew University, 1988

Rebekah B. Johnson Yates (2009)

Assistant Professor of Mathematics; Chair, Department of Mathematics

BS, Wheaton College, 2003; MA, PhD, University of Montana, 2006, 2009

Jo-Anne O. Young (1985; part-time)

Assistant Professor of Physical Education; Equestrian Program Director

BS, Houghton College, 1969; MA, Salem International University, 2005

Paul D. Young (1980)

Professor of Psychology; Associate Dean for Social and Behavioral Sciences; Chair, Department of Psychology and Sociology; Director, Houghton Down Under; Faculty Moderator

BS, Houghton College, 1976; MA, PhD, University of Alberta, 1978, 1984

Mark E. Yuly (2000)

Professor of Physics; Associate Dean for the Natural Sciences and Mathematics

BS, Northwest Nazarene College, 1987; PhD, Massachusetts Inst. of Technology, 1993

James A. Zoller (1984)

Professor of Writing and Literature

BA, University of New Hampshire, 1971; MA, San Francisco State University, 1973; DA, SUNY at Albany, 1984

EMERITI FACULTY

Richard J. Alderman (1971-91)

Director of Admissions and Records; Executive Director of Alumni

BA, Houghton College, 1952; MS, Alfred University 1960

William T. Allen (1953-92)

Professor of Piano and Theory, Composer in Residence

BM, MMus, Northwestern University School of Music, 1950, 1951; PhD, Eastman School of Music, 1954

Jonathan E. Arensen (1995-96 part-time; 1998-2013)

Professor of Anthropology; Director, Houghton in Tanzania

BA, Westmont College, 1968; MA, Central Washington State University, 1976; MS, PhD, Oxford University, 1986, 1991

Bruce C. Brown (1974-2002)

Professor of Voice

BM, Wheaton College, 1962; MM, DMA, University of Southern California, 1964, 1974

E. Douglas Burke (1958-94)

Professor of Physical Education; Director of Intercollegiate Athletics

BS, Wheaton College, 1953; MA, Syracuse University, 1954

EMERITI FACULTY

Ruth G. Butler (1969-85)

Librarian-Buffalo Suburban Campus

BEd, Geneseo State Teachers College, 1943; MLS, SUNY College at Geneseo, 1964

Larry W. Christensen (1969-2006)

Professor of Chemistry

BA, Goshen College, 1965; PhD, Purdue University, 1969

E. Elizabeth Cook (1964-88)

Associate Professor of Biology

BS, Houghton College, 1962; MS, St. Bonaventure University, 1972

Robert L. Cummings (1962-88)

Professor of German

BA, Houghton College, 1950; MA, University of Rochester, 1952

Robert F. Danner (1968-2006)

Vice President for Student Life and Dean of Students

BME, Wheaton College, 1960; MA, George Washington University, 1974; PhD, SUNY at Buffalo, 1990

Andrew F. Gallman, II (1998-2013)

Professor of Linguistics

BA, Millsaps College, 1970; MA, PhD, University of Texas at Arlington, 1974, 1983

Robert J. Galloway (1973-2013)

Professor of Piano

BM, MM, Boston Univ., 1968, 1972; MTS, Gordon-Conwell Theol Sem., 1970; Staatliche Hochschule fuer Musik, Cologne, W. Germany, 1972-73; PhD, Michigan State Univ., 1995

Richard A. Gould (1968-2006)

Associate Professor of Classics

BA, Houghton College, 1961; MA, PhD, Princeton University, 1964, 1968

Richard A. Halberg (1975 - 2013)

Professor of Business Administration; Certified Financial Planner

BA, Houghton College, 1971; MBA, University of Akron, 1976

Lola M. Haller (1963-91)

Professor of Education; Coordinator of Teacher Certification

BS, MA, Western Michigan College of Educ., 1954, 1957; EdD, Michigan State Univ., 1967

Irmgard K. Howard (1970; 2010; part-time-2013)

Professor of Chemistry

BA, PhD, Duke University, 1962, 1970

Richard A. Jacobson (1966-2012)

Professor of Mathematics

BS, MS, South Dakota School of Mines, 1959, 1961

Paul F. Johnson (1972-94)

Professor of French

BA, MA, Boston University, 1951; MEd, Rhode Island College, 1969

Ben R. King (1980-1992, 1996-2011)

Professor of Voice; Director, School of Music; Associate Dean for Music

BM, MM, Texas Tech University, 1973, 1974; DMA, Eastman School of Music, 1985

Harold E. Kingdon (1967-2006)

Professor of Christian Ministries

BA, Houghton College, 1957; MDiv, ThM, Asbury Theological Seminary, 1966, 1967; DMin, Bethel Seminary, 1978

John R. Leax (1968-2009)

Professor of English; Chair, Department of English; Poet in Residence; Van Gordon Chair (2006-2009)

BA, Houghton College, 1967; MA, Johns Hopkins University, 1968

Katherine W. Lindley (1963-89)

Professor of History; Chair, Division of History and Social Science

BA, Houghton College, 1943; MA, PhD, University of Wisconsin, 1946, 1949

Charles E. Massey (1976-98; 1998-2013, part-time)

Professor of Education; Director of Houghton College City Semester

AB, Southern Pilgrim College, 1968; MA, EdD, Univ. of NC at Greensboro, 1972, 1976

Laurence K. Mullen (1966-93)

Professor of Bible and Philosophy; Director of Church Relations

BA, ThB, Eastern Nazarene College, 1949, 1950; MA, Boston University, 1952

Doris J. Nielsen (1971-1997)

Associate Professor of Recreation and Physical Education, Director of Upward Bound

BA, Houghton College, 1971; MEd, SUNY at Buffalo, 1982

EMERITI FACULTY

Edgar R. Norton (1956-93)

Associate Professor of Music Education; Music Education Coordinator; Mabel Barnum Davidson Professor of Fine Arts

BS, Fredonia State Teachers College, 1949; MS, Potsdam State Teachers College, 1960

Frederic C. Parker (1976-1998)

Associate Professor of Mathematics

BS, MS, Columbia University, 1954, 1955; MS, University of Notre Dame, 1964

Richard B. Perkins (1978-2006)

Professor of Sociology

BA, Wheaton College, 1965; MA, PhD, University of Massachusetts, 1972, 1977

Bernard J. Piersma (1971-2004)

Professor of Chemistry

BA, Colgate University, 1959; MS, St Lawrence, 1961; PhD, Univ. of Pennsylvania, 1965

Richard C. Pocock (1959-95)

Professor of Mathematics

BA, Houghton College, 1955; MS, Syracuse University, 1959; EdD, Columbia Univ, 1974

Roger J. Rozendal (1972-2006)

Associate Professor of Communication

BA, Northwestern College, 1965; MA, Oklahoma State University, 1969

Carl Schultz (1965-67; 1971-2011)

Professor of Old Testament

BRE, Malone College, 1952; BA, Houghton College, 1953; MA, Wheaton College, 1954; PhD, Brandeis University, 1973

Frederick Shannon (1958-93)

Professor of Chemistry; Chair, Department of Integrative Studies

BS, MS, PhD, University of Akron, 1953, 1959, 1964

Paul W. Shea (1994-96, part-time; 1996-2013)

Associate Professor of Missions

BA, Houghton College, 1969; MDiv, DMiss, Trinity Evangelical Div. Sch., 1973, 1994

Daryl H. Stevenson (1982-2013)

Associate Dean for Institutional Research & Assessment; Professor of Psychology

BA, Houghton College, 1970; MS, SUNY College at Brockport, 1975; MA, PhD, Rosemead Graduate School of Psychology, 1978, 1981

Gary M. Stith (2002-2012)

Professor of Music Education

BMus, Ohio State University, 1972; MMus, Eastman School of Music, 1978

Lois Jane Wilt (1968-88)

Assistant Professor of Music

BMus, Houghton College, 1946; MA, Western Reserve University, 1947

Warren M. Woolsey (1958-59; 1966-94)

Professor of New Testament and Missions

BA, Houghton College, 1943; STB, Biblical Theol. Sem, 1950; STM, Lutheran School of Theology, 1977

RETIRED FACULTY

Coenraad Bakker (1997-2002)

Associate Professor of Computer Science

BS, Parsons College, 1965; MS, University of Rochester, 1970

Willis Beardsley (1980-2005)

Director of Academic Assessment

BA, Houghton College, 1960; MS, SUNY College at Geneseo, 1965; EdD, SUNY at Buffalo, 1977

Bruce N. Brenneman (1982-98, part-time; 1998)

Assistant Professor of English

BS, Taylor University, 1961; MA, Wesleyan University, 1968

John N. Brittain (2003-2012)

Dean of the Chapel; Professor of Religion

AB, Brown University, 1969; MDiv, The Methodist Theological School, 1972; DMin, St. Mary's Seminary and University, 1985

Carol A. Brown (1995-2002, part-time)

Assistant Professor of Education

BA, Owosso College; BS, Spring Arbor College, 1965; MLS, SUNY Geneseo, 1981

Daniel R. Chamberlain (1976-2006)

President

BA, Upland College, 1953; MA, California State College at Los Angeles, 1957; EdD, University of Southern California, 1967

Dolores W. Gadevsky (1989-2005, part-time)

Associate Professor of Piano

BMus, Los Angeles Conservatory, 1956; "Diplom," Akademie fuer Musik und Darstellende Kunst, Vienna, 1970; DMA, Eastman School of Music, 1987

Betty R. Giles (1988-92, part-time; 1992-97)

Interim Assistant Professor of Voice

BMus, West Virginia University, 1954; MM, New England Conservatory of Music, 1956

Susan M. Hice (1993-2011)

Associate Professor of Education; Director, Student Academic Services

BA, Kalamazoo College, 1965; MSciEd, SUNY College at Fredonia, 1974; PhD, Michigan State Univ., 1983

Thomas R. Kettelkamp (1975-1976, 1978-2015)

Professor of Recreation and Physical Education

BS, Southern Illinois University, 1970; MS, Illinois State University, 1972; PhD, University of Illinois, 1982

Ellen E. Kreckman (1975-1998)

Cataloger and Catalog Coordinator

BA, Houghton College, 1959; MSLS, Syracuse University, 1961

Barbara Jean Reigles (1975, 2009 part-time, 2010)

Professor of Voice

BS, Roberts Wesleyan College, 1969; MM, University of Cincinnati Conservatory of Music, 1975; PhD, Texas Tech University, 1995

Jean-Louis Roederer (1966-72: 1976-2015)

Associate Professor of French and Spanish

BA, Houghton College, 1964; MA, Middlebury College, 1970

Lois A. Ross (2008-2015)

Associate Professor of Accounting

BA, Houghton College, 1973; MA, California State at Los Angeles; MBA, SUNY Buffalo, 1998

William L. Siemens (1988-95)

Professor of Spanish

BA, Wheaton College, 1958; MDiv, Gordon-Conwell Seminary, 1961; MA, University of Massachusetts, 1967; PhD, University of Kansas, 1971

Gudrun M. Stevenson (1990-2002; part-time)

Assistant Professor of German

BA, Houghton College, 1970; MA, Middlebury College, 1996

John R. Tyson (1979-2009)**Professor of Theology**

AB, Grove City College, 1974; MDiv, Asbury Theological Seminary, 1977; MPhil, PhD, The Graduate School
Drew University, 1980, 1983

J. Michael Walters (1995-2015)**Professor of Christian Ministries; Director of Ministerial Education; Associate Dean of Religion and
Global Service; Chair of Biblical Studies, Theology, and Philosophy**

BA, Circleville Bible College, 1972; BA, Houghton College, 1986; MAR, Asbury Theol. Sem., 1974; MA, St.
Mary's Univ., 1980; DMin, Trinity Evangelical Divinity School, 1991

Daniel P. Woolsey (1991-2009)**Professor of Education**

BA, Houghton College, 1977; MA, Simmons College, 1983; PhD, Ohio State University (Columbus), 1986

SABBATICAL**Ndunge Kiiti (2006, Sabbatical 2015-2016)****Professor of Intercultural Studies**

BS, Houghton College, 1988; MA, Wheaton College, 1992; PhD, Cornell University, 2002