

2024-2025 Minor Listing Table of Contents

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Art and Design

Mark Borchert, Dean of Management and Creative Arts |

<https://www.houghton.edu/art/> | 585.567.9308 | art@houghton.edu

Art Minor: 14 hours

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

Art Business Minor: 14–17 hours

Core Required Business Courses	Credits
BADM 203 Survey of Business	3
BADM/COMM 304 Social Media Marketing	3
Total	6
Core Required Art Courses	
ART/COMM 479 Professional Practices in Photography <i>or</i> ART 378 Photography for Business	3–4
ART/COMM 283 Introduction to Digital Photography	3–4
Total	6–8
Electives (<i>must choose at least one of the following</i>)	
ART 280 Creative Modern Portraiture	3
BADM 201 Business Communication	3
BADM/COMM 218 Marketing Principles	3
BADM 303 Entrepreneurship	3
COMM 295 ST: Online Portfolio Management	2
Total	2–3
Total in minor	14–17

Bible & Theology

Peter Meilaender, Dean of Religion, Humanities, and Global Studies |

<https://www.houghton.edu/undergraduate/houghton-ny/majors-programs/academics/biblical-studies-theology-philosophy/> | 585.567.9429

Bible Minor: 12 hours

12 hours in BIBL, numbered 200 or above

Missions Minor: 12 hours

Missions 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. Students taking 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 and Islamic Studies. Everything about Houghton – the faculty, the missions representatives, the students, and the general campus and community ethos – points 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 coursework.

Required Courses	Credits
MISS 241 History of the Global Christian Movement <i>or</i> THEL 221 History of Christianity I	3
MISS 242 Mission and the Global Church	3
MISS 243 Introduction to Missiological Foundations	3
Elective	
As advised by the Global Studies advisor from the following prefixes: BIBL, INCL, LING, MISS, REL, THEL	3
Total in minor	12

Religion Minor: 12–15 hours

Required Course	Credits
THEL/PHIL 255 Reason and Religious Belief	3
Electives	
<i>Select two courses from the following:</i>	
REL 215 Islam: A Christian Introduction	3
REL 221 Eastern Religions	3
REL 222 New Religious Movements	3
REL 231 Judaism	3
<i>Select additional courses from the following:</i>	
THEL 215 Christian Apologetics	3
THEL 313 Systematic Theology	3
BIBL 355 Old Testament Theology	3
BIBL 356 New Testament Theology	3
THEL 221 or 222 History of Christianity I <i>or</i> Global History of Christianity	3, 3
Total in minor	12–15

Sports Ministry Minor: 16 hours

The Sports Ministry minor equips students with hands-on learning opportunities and a theological foundation for the practice of sports ministry within a variety of settings from cross-cultural missions and church plants to recreation/adventure sports, fitness/exercise programs, and coaching or camping.

This minor also prepares students for parachurch sports ministries such as Athletes in Action, Fellowship of Christian Athletes, Missionary Athletes International, Sports Friends, Surge International, Ignite International, Push the Rock, Climbing for Christ, and Score International.

Required Courses	Credits
CRFM 325 Bible Study and Teaching Methods	3

SRWM/CRFM 227 Sports Ministry: The Integration of Faith and Sport	3
SRWM/CRFM 275 Methods of Administration of Sports Ministry	3
Total	9
Select one course from the following:	
CRFM 340 Theological Explorations in Youth Cultures and Ministry	3
BADM 320 Leadership Development <i>or</i> SRWM 229 Outdoor Leadership Training**	3
Total	3
Recommended Electives – choose electives to total 16 hours as approved by advisor	
MISS 242 Missions and the Global Church	4
SRWM 270 Global Sports Culture	3
SRWM 305 Sports Ministry Field Practicum	2
SRWM 306 Principles of Coaching and Sport Management	3
SRWM 240 Camps and Summer Programs	3
SRWM 241 Recreation and Tourism	3
INCL XXX – Intercultural course recommended by department	1–4
CRFM 340 (<i>if not used in previous category</i>)	3
*With approval, the field experience or practicum can be fulfilled through one of the following provided the course has a sufficient sports ministry component:	
MIN 410 Ministerial Field Education	3–6
MISS 311 Cross Cultural Field Experience	3–4
INCL 311 Intercultural Experience	1–4
Total in minor	16

**Students with an SRWM major will take one or the other based on course chosen for the major requirement.

Theology Minor: 12 hours

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

Required Courses	Credits
THEL 211 Introduction to Theology	3
THEL 313 Systematic Theology	3
Theology electives above THEL 209	6
Total in minor	12

World Religions Minor: 12 hours

Required Courses	Credits
REL 215 Islam: A Christian Introduction	3

REL 221 Eastern Religions	3
REL 222 New Religious Movements	3
REL 231 Judaism	3
Total in minor	12

Biology

Jill Jordan, Dean of Natural Sciences and Mathematics |

<https://www.houghton.edu/biology/> | 585.567.9264 | biology@houghton.edu

Biology Minor: 12 hours

12 hours above BIOL 151, 152

Forestry Minor: 14 hours

Forestry (emphasis within the Biology 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 missions organizations. The forestry program at Houghton University, which enjoys a largely forested campus, offers interested students to develop a deeper understanding of these issues through an 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 AAS 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 AAS degree in Forest Technology).

SUNY-ESF Ranger School Required Prerequisites (courses taken at Houghton University: 32 credits)	Credits
ECON 210 Principles of Microeconomics <i>or</i> ECON 211 Principles of Macroeconomics	3
BIOL 151 General Biology: Organisms to Ecosystems	4
BIOL, CHEM, or PHYS – Science course with lab	4
MATH 181 Calculus 1 <i>or</i> MATH 170/171 Calculus I with Pre-calculus A and B <i>or</i> MATH 161 Calculus for the Life Sciences	4–8
English with focus on writing (e.g., Writing in Liberal Arts)	6
Electives (Suggested areas: psychology, sociology, computer science, public speaking)	12
Total SUNY-ESF prerequisites	32–36

Forestry Minor – courses taken during fall semester at SUNY-ESF Ranger School – 14 credits transfer to Houghton University for minor	
Forest Ecology (This course, when counted for the minor, may NOT also be counted toward a Biology major.)	4
Dendrology	3
Introduction to Natural Resources Measurements	4
Remote Sensing and Geographic Information Technology	3
8 hours of additional coursework are included in the program but do <i>not</i> transfer back to Houghton.	

Business and Economics

Mark Borchert, Dean of Management and Creative Arts |
<http://www.houghton.edu/business/> | 585.567.9446 |

Important Note: Some courses in the following minors require pre/corequisites. Check course descriptions for clarification.

Accounting Minor: 15 credits

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
Choose 3 credits of ACCT electives	3
Total in minor	15

Business Administration Minor: 15 credits

Required Courses	Credits
ACCT 211 Financial Accounting	3
BADM 212 Principles of Management* or BADM 201 Business Communication	3
BADM 213 Business Law I, BADM 214 Business Law II or BADM/PSY 309 Statistics*	3–4
BADM/COMM 218 Marketing Principles* or BADM 315 Public Relations in the Digital Age	3
ECON 210 Principles of Microeconomics or ECON 211 Principles of Macroeconomics	3
Total in minor	15

*Select this course to meet the MBA prerequisites.

Certified Financial Planning Minor: 21 credits

Required Courses	Credits
CFP 301 General Principles of Financial Planning	3

CFP 302 Risk Management and Insurance Planning	3
CFP 303 Investment Planning	3
CFP 304 Tax Planning	3
CFP 305 Retirement Savings and Income Planning	3
CFP 306 Estate Planning	3
CFP 307 Financial Plan Development	3
Total in minor	21

Economics Minor: 15 credits

Required Courses	Credits
ECON 210 Principles of Microeconomics	3
ECON 211 Principles of Macroeconomics	3
<i>Additional credits from ECON courses numbered 200 or above</i>	9
Total in minor	15

This minor aims to develop students' 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 worldview 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.

Human Resources Management Minor: 15 credits (Main Campus & Houghton Online)

Required courses	Credits
BADM 212 Principles of Management	3
BADM 314 Human Resources Management (Prerequisite BADM 212)	3
BADM 345 Employment Law	3
BADM 341 Work Team Dynamics	3
<i>Additional 3 credits selected from following:</i>	3
BADM 475 Organizational Development BADM 446 Staffing and Performance Management COMM 215 Interpersonal Communication	
Total in minor	15

Integrated Marketing Communication Minor: 15 credits (Main Campus)

Required courses	Credits
BADM/COMM 218 Marketing Principles	3

BADM/COMM 312 Advertising Principles for Digital Media	3
BADM/COMM 315 Public Relations in the Digital Age	3
BADM 319 Marketing Research and Analytics	3
<i>Additional 3 credits selected from following:</i>	3
COMM 214 Introduction to Mass Media BADM/COMM 304 Social Media Marketing COMM 314 New Media and Society PSY/SOC 218 Social Psychology	
Total in minor	15

Leadership Studies Minor: 14 credits

Required courses	Credits
BADM 320 Leadership Development	3
<i>Additional 11 credits selected from the following (from at least two disciplines):</i>	11
BADM 201 Business Communication (3) BADM 212 Principles of Management (3) BADM 320 Leadership Development (3) COMM 215 Interpersonal Communication (3) COMM 216 Organizational Communication (3) COMM 330 Conflict Management (3) INCL 210 Intercultural Competencies (3) MBCM 320 Artist Management and Development Internship (1–4) MIN 317 Leadership in the Church (3) SRWM 229 Outdoor Leadership Training (3) THEL 320 Spiritual Formation (4) THEL 327 Church, Mission, and Culture (3)	
Total in minor	14

This cross-disciplinary minor in Leadership Studies can alternatively be earned by completing the LIFT (Leaders in Further Training) discipleship training program (run by Camp of the Woods) with the addition of BADM 320 Leadership Development. Students can earn 12 credits through this program.

Organizational Management Minor: 15 credits (Main Campus & Houghton Online)

Required Courses	Credits
ACCT 211 Financial Accounting	3
BADM 212 Principles of Management	3
BADM 314 Human Resources Management	3
BADM 325 Project Management	3
<i>Additional 3 credits selected from following:</i>	3

BADM 303 Entrepreneurship BADM 320 Leadership Development BADM 341 Work Team Dynamics BADM 475 Organizational Development <i>or</i> BADM 330 Operations Management	
Total in minor	15

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

Chemistry

*Jill Jordan, Dean of Natural Sciences and Mathematics |
<https://www.houghton.edu/chemistry/> | 585.567.9264*

Chemistry Minor: 12 hours

The minor in Chemistry consists of at least 12 CHEM credit hours at 200-level or above.

Communication

*Mark Borchert, Dean of Management and Creative Arts |
<https://www.houghton.edu/communication/> | 585.567.9446*

Communication Minor: 12–15 hours

Required Courses	Credits
COMM 205 Intro to Communication Theory	3
Three additional courses with COMM prefix for at least 9 hours total	9–12
Total in minor	12–15

Education

*Ann Monroe-Baillargeon, Dean of Education & Behavioral Sciences |
<https://www.houghton.edu/education/> | 585.567.9308*

Education Minor: 14–16 hours

Required Courses	Credits
EDUC 217 Education and American Culture	3
EDUC 219 Educational Psychology	3
EDUC 235 Educating Exceptional Learners	3
Total	9
Electives – Choose two of the following courses in consultation with an Education Department faculty member.	

EDUC 221 Children's Literature	3
EDUC 223 Adolescent Literature	3
EDUC 240 Teaching in Urban America	2
MATH 114 Mathematical Concepts and Reasoning	4
Total in minor electives	5-7

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

English and Writing

Peter Meilaender, Dean of Religion, Humanities, and Global Studies |
<https://www.houghton.edu/english-and-writing/> | 585.567.9429

English Minor: 12 hours

Students choosing a minor in English are required to take ENGL courses totaling 12 hours.

Writing Minor: 12 hours

A student may obtain a writing minor by completing 12 hours of WRIT courses above the 100-level.

Greatbatch School of Music*

David Clem, Dean and Director of the Greatbatch School of Music |
<https://www.houghton.edu/music/> | 585.567.9400

Applied Music Minor: 16 hours

Sixteen hours in one performance area (minimum 8 hours at or above 201-level 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 in minor	16

Piano Requirements	Credits
14 hours of piano	14
2 hours of ensemble	2
Total in minor	16

Organ Requirements	Credits
14 hours of organ	14
2 hours of ensemble	2
Total in minor	16

Keyboard	Credits
14 hours of piano and organ combined	14
2 hours of ensemble	2
Total in minor	16

Elective Music Minor: 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. It may include some applied and/or ensemble work but requires a minimum of 8 credits of coursework other than applied lessons or ensembles. The course of study agreed upon by the student and department is placed on file in the Registrar's Office.

Music Industry Minor: 17 hours

Required Courses	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 Pro Tools Production I	3
MUS 181 Practicum in Sound and Recording	0
Total in minor	17

History, Politics & Philosophy, and Global Studies

Peter C. Meilaender, Dean of Religion, Humanities, and Global Studies |
<https://www.houghton.edu/history/> | 585.567.9429

French Minor, Self-Designed: 12 hours

A 12-hour self-designed minor with courses beyond the 102 level as determined by arrangement with the Dean of Religion, Humanities, and Global Studies. A special course of study is developed to meet the student's specific goals and is signed prior to taking the courses. The signed course of study is placed on file in the Registrar's Office.

German Minor, Self-Designed: 12–14 hours

A 12-hour self-designed minor with courses beyond the 102 level as determined by arrangement with the Dean of Religion, Humanities, and Global Studies. A special course of study is developed to meet the student's specific goals and is signed prior to taking the courses. The signed course of study is placed on file in the Registrar's Office.

German Studies Minor

Twelve hours of coursework, at least 6 hours of which are in German language study at any level and at least 3 of which are in the study of German, Austrian, or Swiss history, politics, or culture, broadly understood. Students may take additional or higher-level German courses in tutorial form (via approvals) or through study abroad.

Language Courses (<i>Choose at least 6 hours</i>)	Credits
GERM 101 German Level 1	3
GERM 102 German Level 2	3
Higher-level German course as tutorial (with approval)	3
Culture Courses (<i>Choose at least 3 and up to 6 hours</i>)	
ART 234 Art and Architecture in Europe: Germany	4
HIST/POLS 369 Luther and the German Reformation	3
POLS/HIST/HUM 247: Switzerland: A Case Study in European History, Politics, and Culture	3
POLS/HIST/HUM 348 Vienna 1900: Politico-Cultural Crisis and Creativity	3
THEL 333 Major Figures in Theology: Bonhoeffer	3
<i>Other Approved Courses (including study abroad)</i>	0–4
Total in minor	12

Global Studies Minor: 15 hours

Required Courses	Credits
GBS 201 Introduction to Global Studies	3
GBS/SOC 243 Cultural Anthropology <i>or</i> INCL/COMM 225 Intercultural Communication	3
HUM 210 Introduction to Global Humanities <i>or</i> POLS 230 Introduction to International Relations	3
INCL 210 Intercultural Competencies	3
Elective chosen from courses eligible for Global Studies major	3
Total in minor	15

History Minor: 12 hours

12 hours of history courses numbered 200 or above (at least 4 discrete courses)

Intercultural Studies Minor: 12–16 hours

Required Courses	Credits
GBS 201 Introduction to Global Studies	3
GBS 243 Cultural Anthropology	3
INCL 210 Intercultural Competencies	3
Option A	
INCL 311 Intercultural Experience	0–4
Elective to total 12 credits (if INCL 311 is done for less than 3; any INCL/IDEV/ANTH course)	1–3
Total in minor (Option A)	min. 12
Option B	
Corequisite: at least 3 credit hours of any modern world language	3
GBS 350 Culture Change and Globalization	3
Total in minor (Option B)	15

Law and Constitutional Studies: 15 hours

Required Courses	Credits
POLS 205 In Search of Justice <i>or</i> POLS 220 The American Political System	3
HIST 455 American Constitutional History <i>or</i> HIST 360 Early American Republic	3
Elective Options to bring minor to 15 hours	
BADM 213 Business Law I	3–4
BADM 214 Business Law II	3–4
HIST 361 Civil War and Industrial America, 1848–1918	3
HIST 362 Modern American History, 1918 to the Present	3
PHIL 222 Logic and Critical Thinking	3–4
PHIL/POLS 237 Just War?	3
PHIL/POLS 275 Philosophy of Law	3
POLS/PHIL 260 Introduction to Political Thought	3
POLS 437 International Law	3
Any core courses listed above not used to satisfy core requirements	3
Total	7–9
Total in minor	15

Philosophy Minor: 12 hours

Required Courses	Credits
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<i>Choose at least one course from the following:</i>	
PHIL 231: Topics in Premodern Philosophy (various options)	3
PHIL 232: Topics in Modern Philosophy (various options)	
Additional Required Philosophy Courses	
9 hours of Philosophy electives	9
Total in minor	12

Political Science Minor: 12 hours

12 hours of POLS coursework (at least 4 discrete courses)

Politics & Philosophy Minor: 15 hours

Required Courses	Credits
POLS 205 In Search of Justice	3
2 courses from the core of the Politics & Philosophy major	6
Additional POLS/PHIL courses to reach at least 15 credits	6
Total in minor	15

Minor must include at least two POLS and two PHIL courses

Spanish Minor: 12 hours

A 12-hour self-designed minor with courses beyond the 102 level as determined by arrangement with the Dean of Religion, Humanities, and Global Studies. A special course of study is developed to meet the student's specific goals and is signed prior to taking the courses. The signed course of study is placed on file in the Registrar's Office.

Interdisciplinary Studies

Peter C. Meilaender, Dean of Religion, Humanities, and Global Studies

Military Leadership Minor: 12 hours (ROTC at Houghton, through St. Bonaventure University – Army)

Houghton University students may participate in the Reserve Officer Training Corps (ROTC) 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 St. Bonaventure University 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.

Global Humanities Minor: 15 hours

<i>15 hours of courses from the following with no more than two courses from any one prefix other than the interdisciplinary HUM prefix:</i>	Credits
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ART 231 Ancient Art History	4
ART 232 Renaissance and Baroque Art History	4
ART 236 Asian Art History Survey	4
ART 237 Modern and Contemporary Western Art History	4
ENGL 361 Contemporary World Literature	3
HIST 250 World History, 1500-Present	3
HIST 336 Imperial Russia	3
HIST 337 The Soviet Union and Beyond	3
HIST 441 Genocides of the 20th Century	3
HUM/HIST/POLS 247 Switzerland: European Politics and Culture	3
HUM/HIST/POLS 348 Vienna 1900: Politico-Cultural Crisis and Creativity	3
HUM 351 Translation Workshop	1
HUM 382 Around the World: Reading Across Borders	1
MHS 256 Music and Global Cultures in Christian Perspective	3
REL/GBS 215 Islam: A Christian Introduction	3
REL 221 Eastern Religions	3
REL 222 New Religious Movements	3
REL 231 Judaism	3
PHIL 231 Topics in Premodern Philosophy	3
THEL 221 History of Christianity 1	3
THEL 222 History of Global Christianity	3
Up to 3 credits of a foreign language	3
Other courses as approved by the Director of the Center for Global Humanities	
Total in minor	15

Mathematics

*Jill Jordan, Dean of Natural Sciences and Mathematics |
<http://www.houghton.edu/math/> | 585.567.9264*

Mathematics Minor: 12 hours

12 hours in mathematics courses numbered 182 and higher

Online Programs*

*Tammy Dunmire, Director of Houghton Online | <https://www.houghton.edu/online/> |
800-777-2556 | online@houghton.edu*

Art Business Minor: 14–17 hours

Core Required Business Courses	Credits
BADM 203 Survey of Business	3
BADM/COMM 304 Social Media Marketing	3

Total	6
Core Required Art Courses	
ART/COMM 479 Professional Practices in Photography <i>or</i> ART 378 Photography for Business	3–4
ART/COMM 283 Introduction to Digital Photography	3–4
Total	6–8
Electives (<i>must choose at least one of the following</i>)	
ART 280 Creative Modern Portraiture	3
BADM 201 Business Communication	3
BADM/COMM 218 Marketing Principles	3
BADM 303 Entrepreneurship	3
COMM 295 ST: Online Portfolio Management	2
Total	2–3
Total in minor	14–17

Communication Minor: 12–15 hours

Required Courses	Credits
COMM 205 Intro to Communication Theory	3
Three additional courses with COMM prefix for at least 9 hours total	9–12
Total in minor	12–15

Human Resources Management Minor: 15 credits (Main Campus & Houghton Online)

Required courses	Credits
BADM 212 Principles of Management	3
BADM 314 Human Resources Management (Prerequisite BADM 212)	3
BADM 345 Employment Law	3
BADM 341 Work Team Dynamics	3
<i>Additional 3 credits selected from following:</i>	3
BADM 475 Organizational Development BADM 446 Staffing and Performance Management COMM 215 Interpersonal Communication	
Total in minor	15

Organizational Management Minor: 15 credits (Main Campus & Houghton Online)

Required Courses	Credits
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ACCT 211 Financial Accounting	3
BADM 212 Principles of Management	3
BADM 314 Human Resources Management	3
BADM 325 Project Management	3
<i>Additional 3 credits selected from following:</i>	3
BADM 303 Entrepreneurship BADM 320 Leadership Development BADM 341 Work Team Dynamics BADM 475 Organizational Development <i>or</i> BADM 330 Operations Management	
Total in minor	15

Political Science: 12 hours

12 hours of POLS coursework (at least 4 discrete courses)

Psychology Minor: 15 hours

15 hours in psychology above PSY 111

Physics, Computer Science, and Engineering

Jill Jordan, Dean of Natural Sciences and Mathematics |

<https://www.houghton.edu/physics/> | 585.567.9264

Computer Science Minor: 16 hours

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 in minor	16

Data Science Minor: 16 hours

Required Courses	Credits
CSCI 211 Programming I	4
DSCI 211 Data Science I	4
DSCI 212 Data Science II <i>or</i> CSCI 345 Machine Learning	4
<i>4 hours chosen from below</i>	
BADM/PSY 309 Statistics	4
COMM/ART 224 Motion Media Design & Animation	4
COMM/ART 228 Digital Video I	4

COMM 232 Introduction to Web Communication	4
COMM 243/ART 245 Graphic Design I	4
COMM/ART 284 Introduction to Digital Imaging	4
COMM 314 New Media and Society	4
CSCI 218 Programming II	4
CSCI 236 Data Structures and Algorithms	4
CSCI 312 Computational Statistics	4
CSCI 315 Big Data and Cloud Computing	4
CSCI 340 Databases	4
CSCI 345 Machine Learning	4
DSCI 212 Data Science II	4
DSCI 380 Collaborative Research in Data Science	4
DSCI 480 Senior Capstone Seminar in Data Science	4
PSY 312 Advanced Applied Statistics	4
Total in minor	16

Physics Minor: 12 hours

12 hours of PHYS courses numbered 200 or above.

Psychology and Criminal Justice

Ann Monroe-Baillargeon, Dean of Education & Behavioral Sciences |

<https://www.houghton.edu/academics/majors-programs/psychology-sociology/> | 585.567.9308

Child and Family Studies Minor: 15–18 hours

At least <u>one</u> course selected from below:	Credits
PSY 230 Lifespan Development of the Family	3
SOC 237 Introduction to Marriage and Family Studies	3
At least <u>two</u> courses selected from below:	
PSY 213 Developmental Psychology	3
PSY 217 Adolescence and Emerging Adulthood	3
PSY 314 Child Psychopathology	3
At least <u>one</u> course selected from below:	
PSY 220 Culture and Human Development	3
PSY 325 Human Sexuality	3
Electives to reach 15 credit minimum:	
Any of the above courses not used for previous categories <i>or</i>	

EDUC 219 Educational Psychology	3
SOC 330 Culture and Family	2
SOC 362 Gender Relations	3
SOC 394 Internship in Family Studies	1–6
THEL 310 Women, Men, and the Image of God	3
THEL 337 Theological Foundations of the Family	3
Special Topics courses as approved by school dean	3
Total in minor	15

The Child and Family Studies minor is interdisciplinary, combining the fields of psychology, sociology, education, and theology to provide an integrative field of study that examines child development; the social, cultural, and theological functions of the family; and the dynamics of family systems. The minor is designed to provide students with exposure to knowledge and skills necessary 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 (e.g., marriage and family studies, early childhood education, pastoral care).

Criminal Justice Minor: 15 hours

Required Course:	Credits
CRJ 201 Introduction to Criminal Justice	3
<i>At least one course selected from below:</i>	
CRJ 301 Police Operations and Procedures	3
CRJ 305 Courts, Judgments, and Alternative Consequences	3
CRJ 310 Correction, Probation, and Restorative Justice	3
CRJ 211, 311, 411 Special Topics in Criminal Justice	3
POLS 220 The American Political System	3
POLS 270 Introduction to Public Policy	3
POLS/PHIL 275 Philosophy of Law	3
POLS 426 Constitutional Law	3
<i>At least one course selected from below:</i>	
COMM 330 Conflict Management	3
PSY/SOC 218 Social Psychology	3
PSY 301 Psychology of Personality	3
PSY 305 Abnormal Psychology	3
PSY 314 Child Psychopathology	3
PSY 320 Stereotyping and Prejudice	3
PSY 335 Drugs and Behavior	3
PSY 350 Cultural Competencies for Practice	3

PSY 402 Counseling and Psychotherapy	3
Electives (5–6 hours, to total 15 hours in the minor)	
Any of the above courses not used for previous categories <i>or</i>	
POLS 205 In Search of Justice	3
CRJ/SOC 231 Criminology	3
THEL 230 Building Shalom: Justice, Love, and the Christian Life	3
WRIT 217 Professional Writing	3
Special Topics courses as approved by school dean	2–3
Total in minor	15

The Criminal Justice minor is an interdisciplinary minor that involves courses in criminal justice, political science, and psychology. It is designed for students who are pursuing another academic major but who have an academic and/or career interest in the area of criminal justice. Studying criminal justice offers excellent preparation for students anticipating careers in counseling, social work, and other health services; politics and law; ministry; activism and lobbying; law enforcement; or forensic psychology.

Diversity Studies Minor: 15 hours

<i>At least two courses selected from below:</i>	Credits
PSY 220 Culture and Human Development	3
PSY 318 Psychology of Race and Racism	3
PSY 320 Stereotyping and Prejudice	3
PSY 350 Cultural Competencies for Practice	3
<i>At least one course selected from below:</i>	
GBS/SOC 243 Cultural Anthropology	3
SOC/PSY 218 Social Psychology	3
SOC 335 Diversity in the Workplace	3
SOC 362 Gender Relations	3
Electives (6–7 hours to total 15 hours in the minor)	
Any of the above courses not used for previous categories <i>or</i>	
COMM/INCL 225 Intercultural Communication	3
ENGL 361 Contemporary World Literature	3
GBS 201 Introduction to Global Studies	3
INCL 210 Intercultural Competencies	3
POLS 205 In Search of Justice	3
PSY 325 Human Sexuality	3
THEL 230 Building Shalom: Justice, Love, and the Christian Life	3
THEL 232 Poverty, Wealth, and the Christian Gospel	3
THEL 240 Ethnicity, Race, and the Church	3

THEL 295 Race and American Christianity	3
WRIT 312 Writing for Social Change	3
Special Topics courses as approved by school dean	
Total in minor	15

The interdisciplinary Diversity Studies minor combines the fields of psychology, sociology, anthropology, theology, communication, and intercultural studies to provide an integrative field of study that examines human relations by looking at human differences and inequities (in gender, age, race, religion, nationality, ethnicity, sexuality, and socioeconomic status) to develop critical thinking, cultivate knowledge, and promote intercultural communication. The minor is designed to equip students to work, live, and worship in an increasingly diverse society and to understand diversity at interpersonal, systemic, and structural levels.

Psychology Minor: 15 hours

15 hours in psychology above PSY 111

Sociology Minor: 12 hours

12 hours above SOC 101

Sport, Recreation, and Wellness

Mark Borchert, Dean of Management and Creative Arts |

<https://www.houghton.edu/sport-recreation-and-wellness/> | Equestrian Center: 585.567.8142

Athletic Administration and Sports Management Minor: 16 hours

Required Courses	Credits
SRWM 221 Principles of Sport, Recreation, and Wellness Management*	3
BADM 320 Leadership Development <i>or</i> SRWM 229 Outdoor Leadership Training**	3
Recommended Electives – <i>choose electives to total 16 hours as approved by advisor:</i>	
SRWM 314 Organization & Management of Athletics	3
SRWM 306 Principles of Coaching & Sports Management	3
SRWM 313 Sports Marketing & Communication	3
SRWM 270 Global Sports Culture	3
SRWM 326 Strength & Conditioning	2
SRWM 325 Certified Personal Trainer	2
SRWM 327 Sports Nutrition	2
SRWM 486/487/488 Practicum I, II, <i>and/or</i> III – <i>site location approved by instructor*</i>	1–3
BADM xxx – recommended and approved by advisor	3
PSY 200 level or higher – recommended and approved by advisor	3

COMM XXX – recommended and approved by advisor	2–3
Total in minor	16

NOTE: Students with an SRWM major and Athletic Administration and Sports Management minor must have a minimum of 12 non-overlapping credits to complete the minor.

*courses also found in the SRWM major

**Students with an SRWM major will take one or the other based on course chosen for the major requirement.

The Athletic Administration and Sports Management minor prepares students for professional leadership roles within the sports industry including coaching and administration; educational, recreational, and club athletics; event and facilities management; sports marketing; media and public relations; recreation programming; product management; and emergent technologies within the growing sporting world.

Equestrian Studies Minor: 14 hours

Requirements	Credits
SRWM 221 Principles of Sport, Recreation, and Wellness Management <i>or</i> SRWM 229 Outdoor Leadership Training <i>or</i> SRWM 300 Program Planning	3
EQST 101 Introduction to Equestrian Studies	1
EQST 231 Equine Facility Management I	2
EQST 238 Equine Science I	2
Equestrian electives (EQST 201 or above)	6
Total in minor	14

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 will cultivate Christ-like character, enabling students to become effective servant-scholars.

*See Program Guidelines and Requirements

*Note: No more than 8 hours of EQST courses may be counted towards graduation for students not majoring in SRWM with the equestrian options or minoring in Equestrian Studies.

Equine-Assisted Therapy Minor: 15 hours

Requirements	Credits
EQST 101 Introduction to Equestrian Studies	1
EQST 226 Foundations of Equine-Assisted Therapies	2
EQST 231 Equine Facility Management I	2
EQST 238 Equine Science I	2
EQST 336 Methods and Materials of Equine-Assisted Therapies	2
Equestrian electives (EQST 214 or above)	6
Total in minor	15

A minor in Equine-Assisted Therapy will equip students to use horses to help individuals with disabilities in various settings through a variety of facilitation techniques. Students choosing to pursue a certification from

the Professional Association of Therapeutic Horsemanship (PATH) can do so through an internship field placement.

*See Program Guidelines and Requirements

*Note: No more than 8 hours of EQST courses may be counted towards graduation for students not majoring in SRWM with the equestrian options or minoring in Equestrian Studies.

Health Promotion and Fitness Minor: 16 hours

Required Courses	Credits
SRWM 221 Principles of Sport, Recreation, and Wellness Management*	3
SRWM 237 Holistic Health	3
<i>Current Certification</i> – SRWM 308 First Aid & Safety or CPR/AED for the Professional Rescuer and First Aid or Lifeguarding or WFA/WFR	0–2
Recommended Electives – choose electives to total 16 hours as approved by advisor	
SRWM 325 Certified Personal Trainer	2
SRWM 326 Strength & Conditioning	2
SRWM 327 Sports Nutrition	2
SRWM 314 Organization & Management of Athletics	3
SRWM 306 Principles of Coaching & Sport Management	3
BADM XXX – recommended and approved by advisor	3
PSY 200 level or higher – recommended and approved by advisor	3
COMM XXX – recommended and approved by advisor	2–3
BIOL 365 – Immunology	4
Total in minor	16

NOTE: Students with an SRWM major and Health Promotion & Fitness minor must have a minimum of 12 non-overlapping credits to complete the minor.

*courses also found in the SRWM major

The Health Promotion and Fitness minor prepares students interested in the applied health and wellness industry in local, regional, and national settings. Students can pursue certifications within the National Council on Strength & Fitness. Students are prepared for careers in health promotion, fitness instruction, strength and conditioning coaching, and personal training.

Recreation Minor: 16 hours

Required Courses	Credits
SRWM 221 Principles of Sport, Recreation, and Wellness Management*	3
BADM 320 Leadership Development or SRWM 229 Outdoor Leadership Training**	3
<i>Current Certification</i> – WFA/WFR recommended or CPR/AED for the Prof. Rescuer & First Aid or Lifeguarding or SRWM 308 First Aid & Safety*	0–2

Recommended Electives – choose electives to total 16 hours as approved by advisor	
SRWM 240 Camps & Summer Programs	3
SRWM 241 Recreation & Tourism	3
SRWM 301 Outdoor & Experiential Education	3
SRWM 401 Natural Resource Management	3
SRWM 220 Adventure Sports	2
SRWM 104 Backpacking	1
BIO XXX – recommended course with environmental emphasis	4
PSY 200 level or higher – recommended and approved by advisor	3
COMM XXX – recommended and approved by advisor	2
Total in minor	16

NOTE: Students with an SRWM major and a Recreation minor must have a minimum of 12 non-overlapping credits to complete the minor.

*courses also found within the SRWM major

**Students with an SRWM major will take one or the other based on the course chosen for the major requirement.

The Recreation minor equips students interested in areas of private, public, and/or nonprofit recreation; camp programming; natural resource management; and adventure education. The minor addresses leadership styles and theory, principles and methods of program development, and the foundations of leisure theories and philosophies within the experiential educational context.

Sports Ministry Minor: 16 hours

Required Courses	Credits
CRFM 325 Bible Study and Teaching Methods	3
SRWM/CRFM 227 Sports Ministry: The Integration of Faith and Sport	3
SRWM/CRFM 275 Methods of Administration of Sports Ministry	3
Total	9
Select one course from the following:	
CRFM 340 Theological Explorations in Youth Cultures and Ministry	3
BADM 320 Leadership Development <i>or</i> SRWM 229 Outdoor Leadership Training**	3
Total	3
Recommended Electives – choose electives to total 16 hours as approved by advisor	
MISS 242 Missions and the Global Church	4
SRWM 270 Global Sports Culture	3
SRWM 305 Sports Ministry Field Practicum	2
SRWM 306 Principles of Coaching and Sport Management	3

SRWM 240 Camps and Summer Programs	3
SRWM 241 Recreation and Tourism	3
INCL XXX – Intercultural course recommended by department	1–4
CRFM 340 (<i>if not used in previous category</i>)	3
*With approval, the field experience or practicum can be fulfilled through one of the following provided the course has a sufficient sports ministry component:	
MIN 410 Ministerial Field Education	3–6
MISS 311 Cross Cultural Field Experience	3–4
INCL 311 Intercultural Experience	1–4
Total in minor	16

**Students with an SRWM major will take one or the other based on the course chosen for the major requirement.

The Sports Ministry minor equips students with hands-on learning opportunities and a theological foundation for the practice of sports ministry within a variety of settings from cross-cultural missions and church plants to recreation/adventure sports, fitness/exercise programs, and coaching or camping.

This minor also prepares students for parachurch sports ministries such as Athletes in Action, Fellowship of Christian Athletes, Missionary Athletes International, Sports Friends, Surge International, Ignite International, Push the Rock, Climbing for Christ, and Score International.