

# Degree Requirements 

## Core Requirements

## Associate of Arts and Associate of Science Degree

The College currently offers five associate degrees. All require a minimum of 60 credit hours $(\mathrm{CH})$ including core and specified credit hours in the area of study, with at least a 2.0 cumulative grade point average (GPA):

- Associate of Arts, Liberal Studies, includes broad preparation in foundational skills and knowledge and five electives in the student's prospective area of study (typically a minor).
- Associate of Arts, Accounting, includes broad preparation in foundational skills and knowledge and 27 specified credit hours in Accounting.
- Associate of Arts, Business Administration, includes broad preparation in foundational skills and knowledge and 30 specified credit hours in Business Administration.
- Associate of Arts, Criminal Justice Studies, includes broad preparation in foundational skills and knowledge and 27 specified credit hours in Criminal Justice.
- Associate of Science, Information Systems, includes broad preparation in foundational skills and knowledge and 20 specified credit hours in Information Systems.

When core (below) and disciplinary requirements are met, additional credit hours may be elected by the student, with approval by the student's advisor. Successful completion of the program provides students the opportunity to complete a baccalaureate degree or enter the professional workforce.

1. SEMS 110: Introduction to Seminar Series (3 CH)

- This seminar, taken during the student's first year at Thiel College, is the first seminar within the core series. It is designed to introduce students to seminar style learning in a disciplinary context. SEMS 110 must be completed with a C - or higher to meet graduation requirements.

2. Composition ( $\mathbf{3} \mathbf{C H}$ )

- Successfully complete ENG 101: College Writing (C- or higher required).

3. Presentation (3 CH)

- Successfully complete INDS 101: Introduction to Presentational Literacy (C- or higher required).

4. Quantitative and Scientific Reasoning (10-11 CH)

- Quantitative Reasoning
- Students must earn a grade of C- or higher in MATH 125
- Scientific Reasoning
- Successfully complete one natural or physical science laboratory course.
- Additional Quantitative / Scientific Reasoning Course
- Successfully complete one additional course satisfying either Quantitative or Scientific Reasoning: computer science, mathematics, natural or physical science course-biology, chemistry, computer science, environmental science, geology, neuroscience, mathematics, or physics. PSY/SOC 233, Statistics for Social Sciences, will also fulfill this requirement. Courses with the CIS and IS prefix will not satisfy this requirement.

5. Creative and Humanistic (9-11 CH)

- Creative (3-4 CH)
- Successfully complete a course (or earn at least 3 CH ) in art, music or theatre excluding THAR 101: Theatre Practicum.
- Humanistic (6-7 CH)
- Students must successfully complete REL 120, 121, 122 or 123 and one additional course in English, history, languages, philosophy or religion.

6. Socio-Political (3-4 CH)

- Successfully complete one course in economics, geography, political science, psychology, sociology or criminal justice studies. Courses with the prefix ACCT, BADM, EDUC, ECE, SPED, and SECED will not satisfy this requirement.


## 7. Concern for Physical Well-Being (2-3 CH)

- Thiel College hopes to engage our students in activities that build their appreciation for and participation in healthy activity. These courses are designed to promote an intellectual understanding of physical well-being and development to provide the opportunity for students to apply theory in a variety of structured options.
- Students will successfully complete two or three credit hours of theory courses such as AH 105 Taking Care of your Health, AH 115 Food Patterns and Health, AH 125 Nutrition, HPED 198 Slimnastics, or HPED 199 Fitness for Life and Wellness.


## Accounting

## Associate of Arts Degree

1. A minimum of 64 credit hours with at least a 2.0 cumulative and major GPA is required.
2. Core requirements for the A.A. degree are detailed under Academic Information.
3. Last 30 credit hours must be completed at Thiel College.
4. Courses required for associate of arts degree in accounting:

| ACCT 113 | Principles of Accounting I | 3 CH |
| :--- | :--- | :--- |
| ACCT 123 | Principles of Accounting II | 3 CH |
| ACCT 213 | Intermediate Accounting I | 3 CH |
| ACCT 223 | Intermediate Accounting II | 3 CH |
| ACCT 313 | Cost Accounting | 3 CH |
| ACCT 323 <br> or <br> ACCT 333 | Taxation-Personal | 3 CH |
| ACCT 423 | Taxation-Corporate |  |
| BADM 355 | Business Law I | 3 CH |
| CIS 111 | Word Processing Applications | 3 CH |
| CIS 112 | Spreadsheet Applications | 1 CH |
| CIS 122 | Advanced Spreadsheet Apps | 1 CH |

## Business Administration

## Associate of Arts Degree

1. A minimum of 60 credit hours with at least a 2.0 cumulative and major GPA is required.
2. Core requirements for the A.A. degree are detailed under Academic Information.
3. Last 30 credit hours must be completed at Thiel College.

## Major Requirements

| BADM 100 | Introduction to Business | 3 CH |
| :--- | :--- | :--- |
| CIS 111 | Word Processing Applications | 1 CH |
| CIS 112 | Spreadsheet Applications | 1 CH |
| CIS 113 <br> CIS 122 | Data Management Applications | 1 CH |
| ECON 211 | Advanced Spreadsheet Applications |  |
| ECON 221 | Macroeconomics | 3 CH |
| BADM 374 | Principles of Management | 3 CH |
| BADM 384 | Business Communication | 3 CH |

Any three of the following:

| ACCT 323 | Personal Tax | 3 CH |
| :--- | :--- | :--- |
| BADM 324 | Advertising | 3 CH |
| BADM 334 | Risk Management and Insurance | 3 CH |
| BADM 364 | Business Ethics | 3 CH |
| BADM 376 | International Business | 3 CH |

## Criminal Justice Studies

## Associates of Arts Degree

The Associate of Arts Degree in Criminal Justice Studies requires a minimum of 60 credit hours with at least a 2.0 cumulative GPA overall and a 2.0 average in criminal justice studies major courses.

| SEMS 110 | Introduction to Seminar Series | 3 CH |
| :--- | :--- | :--- |
| ENG 101 | College Writing | 3 CH |
| INDS 101 | Presentational Literacy | 3 CH |
| MATH 125 | Quantitative Reasoning | 3 CH |
| One laboratory class in natural or physical sciences | 4 CH |  |
| REL 12X | Religion course satisfying Thiel College Core | 3 CH |
| Complete from three of the below areas: | $3-4 \mathrm{CH}$ |  |
|  | Fine arts | $3-4 \mathrm{CH}$ |
|  | Humanities | $3-4 \mathrm{CH}$ |
|  | Social Science | $3-4 \mathrm{CH}$ |

Major courses required for the Associate of Arts in criminal justice studies:

| CJS 101 | Introduction to Criminal Justice Studies | 3 CH |
| :--- | :--- | :--- |
| SOC 121 <br> or <br> SOC 141 | Microsociology | 3 CH |
| CJS 221 | Macrosociology |  |
| CJS 230 | Corrections in America | 3 CH |
| CJS 301 <br> or <br> CJS 305 | Law Enforcement in America | 3 CH |
| SOC 321 <br> or <br> SOC 331 | Juvenile Justice Studies | 3 CH |
| CJS/POSC 438 <br> or <br> POSC 439 <br> or <br> POSC 445 | Deviance |  |

Two elective courses (6 CH) must be selected from the list of elective courses for the major in criminal justice studies.

## Dietrich Honors Institute

## DHI Graduation Requirements

DHI students complete a four-year, sequenced, Core curriculum taken in place of the general College Core. To graduate as a Dietrich Honors Institute Scholar students must complete the following:

## Foreign Language Competency

Six credits of introductory level college coursework in the same language or three credits of intermediate level language. Exemption possible through the Department of Language examination.

## Mathematics Competency

Earn a grade of C- or higher in Math 142 (or higher) or PSY 215/SOC 233, Statistics for the Social Sciences.

## Scientific Reasoning Competency

Successfully complete one natural or physical science laboratory course (as determined in the general College Core).

## DHI Core Courses

Pass all of the following courses:

| HONS 109 | Becoming Human: Love, Power, Justice | 3 CH |
| :--- | :--- | :--- |
| HONS 113 | Communicating Effectively: Grammar, Dialectic, Rhetoric | 3 CH |
| HONS 114 | Creating Culture: Ancient, Medieval, Modern | 3 CH |
| HONS 128 | Interpreting Scriptures: Jewish, Christian, Islamic | 3 CH |
| HONS 126 | Composing Contextually: Enlightenment, Romanticism, <br> Postmodernism | 3 CH |
| HONS 250 | Global Perspectives | 3 CH |
| HONS 330 | Creative Practices: Art, Research, and Problem-Solving | 3 CH |
| HONS 340 | Contributing Culturally: Researching, Creating, Presenting | 3 CH |

## DHI Elective Course

The DHI Elective is meant to encourage students to follow their curiosity and challenge themselves. The DHI Elective must be a 3 - or 4 -credit course

Any level ART course.
Classes that are required to satisfy the major, but which are not in the major department, qualify for the DHI Elective. (E.g., PHIL 387 Medical Ethics satisfies requirements for a B.S. in Neuroscience; since it is outside the major department as a non-Neuroscience course, it can count as a DHI Elective.) The DHI Elective can be taken in satisfaction of requirements for a minor. Students may petition the DHI Director for exemptions to these guidelines. Students must submit their DHI Elective selection to the DHI Office via the electronic DHI Elective Form.

## DHI Thesis

All Dietrich students must satisfactorily complete and present an approved honors thesis.

## Good Standing in the DHI

To remain in good standing in the DHI, students must

- Maintain a 3.0 GPA, both cumulatively and semester-by-semester;
- Abide by the Thiel Honor Code and Academic Integrity policies as outlined in the Thiel College Student Handbook;
- Make timely progress in DHI coursework;
- Be good ambassadors of Thiel College and the DHI, especially while participating in special events and trips.

Failure to meet these requirements may result in probationary status or dismissal from the DHI. Further details about DHI programs and policies are found in the DHI Student Handbook (click here).

## Core Requirements

The College offers two parallel core pathways to fulfill the All-College Learning Goals: The general core curriculum and the Dietrich Honors Institute (DHI) core.

## Bachelor of Arts and Bachelor of Science Degree

## Credit Hours

- 124 credit hours of successfully completed course work shall be required for the Bachelor of Arts degree.
- The 124 credit hours shall be distributed approximately as follows:
- 25 to 30 percent for the Core Curriculum Requirement
- 30 to 45 percent for the major
- 25 to 45 percent for electives


## 1. Literacy Series

- Composition (3 CH)
- Successfully complete ENG 101: College Writing (C- or higher required)
- Presentation (3 CH)
- Successfully complete INDS 101: Introduction to Presentational Literacy (C- or higher required)
- Quantitative and Scientific Reasoning (10-12 CH)
- Quantitative Reasoning
- B.A. Programs: Students must earn a grade of C- or higher in MATH 125, MATH211, or higher.
- B.S. Programs: Students must earn a grade of C- or higher in MATH 142 or any calculus course.
- Scientific Reasoning
- Successfully complete one natural or physical science laboratory course.
- Additional Quantitative / Scientific Reasoning Course
- Successfully complete one additional course satisfying either Quantitative or Scientific Reasoning: computer science, mathematics, natural or physical science course-biology, chemistry, computer science, environmental science, geology, neuroscience, mathematics, or physics. PSY/SOC 233, Statistics for Social Sciences, will also fulfill this requirement. Courses with the CIS and IS prefix will not satisfy this requirement.
- Creative and Humanistic (12 CH)
- Creative (3 CH)
- Successfully complete a course (or earn at least 3 CH ) in art, music or theatre, excluding THAR 101: Theatre Practicum.
- Humanistic (6 CH)
- Students must successfully complete REL $120,121,122$ or 123 and one additional course in English, history, languages, philosophy or religion.
- Additional Creative and Humanistic Course (3 CH)
- Students must successfully complete an additional course satisfying either Creative or Humanistic: art, music, theatre, history, English, philosophy, religion or a Spanish culture course ( 250 for example). This course must be outside the student's major (i.e. cannot be a course with the same department prefix as the major).
- Socio-Political (3-4 CH)
- Successfully complete one course in economics, geography, political science, psychology, sociology or criminal justice studies. Courses with the prefix ACCT, BADM, EDUC, ECE, SPED, and SECED will not satisfy this requirement.
- Foreign Language (0-6 CH)
- The foreign language requirement may be satisfied in one of the following ways:
- Earn a final grade of C - or better in two years of the same foreign language in high school;
- Take the placement test and test out of a class or the requirement altogether;
- Complete (C- or better) two semesters of a foreign language at the introductory level;
- Complete (C- or better) one semester of a foreign language at the intermediate level.


## 2. Seminar Series (9 CH)

The Seminar Series at Thiel College is designed to introduce students to engaged, participatory learning. This series of three courses is intended to be the centerpiece of the core curriculum, emphasizing studentcentered learning and investigation of big ideas, the interconnected nature of the disciplines, as well as creative and team-based problem solving.

- SEMS 110: Introduction to Seminar Series (3 CH)
- This seminar, taken during the student's first year at Thiel College, is the first seminar within the core series. It is designed to introduce students to seminar style learning in a disciplinary context. SEMS 110 must be completed with a C- or higher to meet graduation requirements.
- SEMS 250: World Cultures (3 CH)
- This seminar is to be taken during the student's second, third, or fourth semester. By the end of this seminar, students will have the resources to develop into mature, informed, critically thinking citizens through the exploration of similarities and differences between cultures. This seminar will be cross-listed with pre- approved courses that are discipline-specific. Cannot be used to concurrently satisfy another core requirement in the Literacy Series. (P: SEMS 110)
- This is the final seminar in the core seminar series. The topic will be determined by the instructor and the consulting faculty. The purpose of the course is for the class to give an indepth analysis of an issue of current global importance. Students will be expected to bring their own experience from the previous seminars as well as their expertise from their own major to bear on the issue at hand. Cannot be used to concurrently satisfy another core requirement in the Literacy Series. (Recommended P: junior or senior standing and SEMS 110 and 250)


## 3. Concern for Physical Well-Being (2-3 CH)

Thiel College hopes to engage our students in activities that build their appreciation for and participation in healthy activity. These courses are designed to promote an intellectual understanding of physical well-being and development to provide the opportunity for students to apply theory in a variety of structured options.

Students will successfully complete two or three credit hours of theory courses such as AH 105 Taking Care of your Health, AH 115 Food Patterns and Health, AH 125 Nutrition, HPED 198 Slimnastics, or HPED 199 Fitness for Life and Wellness.

## Accounting

## Bachelor of Arts Degree

The objective of the accounting program is to develop a solid foundation for public accounting, governmental accounting and corporate accounting. Public accounting is a field for independent accountants who review and report on the propriety of management's measurements and communications of financial information; the corporate accountant accumulates, interprets and reports to management the financial results of the organization's activities. With this preparation, one may structure a studies program toward either immediate employment or graduate school.

A student who graduates from Thiel College with a major in accounting will demonstrate:

- an understanding of generally accepted accounting principles and the ability to prepare accurate and informative financial statements.
- a working knowledge of the importance and function of independent audits and generally accepted auditing standards.
- a basic understanding of the Internal Revenue Code and the impact of taxes on business decisions.
- competency in data analysis techniques, including spreadsheets and databases.
- facility in understanding and resolving ethical dilemmas faced by accountants and auditors.
- interpersonal and team membership skills.
- the ability to communicate effectively in oral and written form.


## Major Requirements

| ACCT 113 | Principles of Accounting I | 3 CH |
| :--- | :--- | :--- |
| ACCT 123 | Principles of Accounting II | 3 CH |
| ACCT 213 | Intermediate Accounting I | 3 CH |
| ACCT 223 | Intermediate Accounting II | 3 CH |
| ECON 211 | Principles of Macroeconomics | 3 CH |
| ECON 221 | Principles of Microeconomics | 3 CH |
| MATH 211 | Elementary Statistics | 4 CH |
| CIS 111 | Word Processing Applications | 1 CH |
| CIS 112 | Spreadsheet Applications | 1 CH |
| CIS 122 | Advanced Spreadsheet Apps | 1 CH |
| CIS 129 | Fundamentals of Info Systems | 3 CH |
| CSCI 120 | Introduction to Data Analytics | 3 CH |


| BADM 355 | Business Law I | 3 CH |
| :--- | :--- | :--- |
| BADM 356 | Business Law II | 3 CH |
| BADM 384 | Business Communication | 3 CH |
| ACCT 313 | Cost Accounting | 3 CH |
| ACCT 323 | Taxation-Personal | 3 CH |
| ACCT 333 | Taxation-Corporate | 3 CH |
| ACCT 423 | Auditing | 3 CH |

## Upper Level (4 required)

| ACCT 253 | Payroll Accounting | 3 CH |
| :--- | :--- | :--- |
| ACCT 343 | Governmental and Non-Profit Accounting | 3 CH |
| ACCT 412 | Accounting Information Systems | 3 CH |
| ACCT 413 | Advanced Accounting | 3 CH |
| ACCT 433 | Accounting Theory | 3 CH |
| ACCT 493 | CPA - Preparing for the Profession | 3 CH |
| ACCT 455 | Cooperative Education | CH var. |

Transfer students are required to complete at Thiel College a minimum of four upper-level courses required for the major.

## Biology

## Bachelor of Arts Degree

A student who graduates from Thiel College with a major in biology will:

- understand biological principles and their implications including: Evolution; Structure and Function; Information flow, exchange, and storage; Pathways and transformation of energy and matter; and Biological Systems.
- study, analyze experimentally and interpret biological problems, including: a. modeling and simulation b. quantitative reasoning c . generation of lab reports that reflect methodology.
- be able to effectively communicate about biological matters in both oral and written form.
- be prepared for discipline-related employment (including secondary education in Pennsylvania) or admission into a discipline-related graduate or professional program.


## I. Foundational Courses

BIO 145 Foundations of Biology 4 CH

And one of the following four systematics courses:

| BIO 262 | Animal Systematics | 4 CH |
| :--- | :--- | :--- |
| BIO 222 | Entomology | 4 CH |
| BIO 263 | Plant Systematics | 4 CH |
| BIO 212 | Microbiology | 4 CH |

## II. Breadth in the Discipline of Biology

Students must take all five courses.

| BIO 290 | Cell Biology: A Molecular Approach | 4 CH |
| :--- | :--- | :--- |
| BIO 322 | Genetics | 4 CH |
| BIO 342 | Biostatistics and Research Methods | 4 CH |
| BIO 392 | General Ecology | 4 CH |

One elective from any $4 \mathrm{CH}, 200$ or 300 level BIO lab course, except BIO 350 -Principles of Immunology. Students may also choose from NCSI 202, 209 or 315.

Note: Courses applied as foundational courses may not also be applied as breadth in the discipline courses.

## III. Senior Capstone Experience in Biology

A completed research project under the supervision of a biology department faculty member is required of the student majoring in biology. The project is culminated with a formal scientific research
paper and a formal oral presentation. See the biology chair for specific requirements of the research
project.
Students must take both:

| BIO 395 | Junior Research Seminar | 1 CH |
| :--- | :--- | :--- |
| BIO 462 | Senior Seminar | 2 CH |

And one of the following two courses:

| BIO 452 | Advanced Biology | 2 CH |
| :--- | :--- | :--- |
| BIO 482 | Independent Study | 2 CH |

## IV. Related Math and Science Courses

MATH $142 \quad$ Precalculus (minimum requirement) 3 CH
And one of the following three pairings:

| CHEM 140 | General Chemistry I <br> General Chemistry II | 4 CH |
| :--- | :--- | :--- |
| CHEM 160 |  | 4 CH |
| OR | Physics I (non-calc based) | 4 CH |
| PHYS 154 | Physics II (non-calc based) | 4 CH |
| PHYS 164 |  |  |
| OR | Physics I (calculus based) | 4 CH |
| PHYS 174 | Physics II (calculus based) | 4 CH |

Suggested schedule of science courses for biology majors (B.A.)

Fall
1 BIO 145: Foundations of Biology CHEM 140: General Chemistry I MATH 142: Precalculus (minimum)

2 BIO 322 Genetics or BIO Elective

3 BIO 392 Ecology and BIO 322 Genetics or BIO Elective

4 BIO 462 Senior Seminar and
BIO 452 Advanced Biology
or
BIO 482 Independent Study

Spring
BIO 290 Cell Biology or Systematics Course
CHEM 160 General Chemistry II
BIO 290 Cell Biology or Systematics Course

BIO 342 Biostatistics and Research Methods BIO 395 Junior Research Seminar

BIO Elective

## Business Administration

## Bachelor of Arts Degree

The objectives of the business administration program are to provide a broad understanding of the American business system and to establish a base for good citizenship in our democratic society; to teach basic business principles and fundamental skills essential for success in either a large or small business; and to prepare for employment in a business related field. A student who graduates from Thiel College with a major in business administration will demonstrate:

- the ability to perform basic business management functions.
- competency in data analysis techniques, including use of spreadsheets and databases.
- facility in resolving ethical dilemmas faced by business managers.
- interpersonal skills and learn to be a valuable member of a team.
- the ability to communicate effectively in oral and written form.


## Major Requirements

| Major Core Requirements (All Tracks) |  |  |
| :--- | :--- | :--- |
| ACCT 113 | Principles of Accounting I | 3 CH |
| BADM 233 | Managerial Accounting | 3 CH |
| ECON 211 | Macroeconomics | 3 CH |
| ECON 221 | Microeconomics | 3 CH |
| MATH 211 | Elementary Statistics | 4 CH |
| CIS 111 | Word Processing Applications | 1 CH |
| CIS 112 | Spreadsheet Applications | 1 CH |
| CIS 113 | Data Management Applications | 1 CH |
| CIS 122 | Advanced Spreadsheet Apps |  |
| CIS 129 | Fundamentals of Info Systems | 3 CH |
| BADM 355 | Business Law I | 3 CH |
| BADM 356 | Business Law II | 3 CH |
| BADM 374 | Principles of Management | 3 CH |
| BADM 384 | Business Communication | 3 CH |

## Advertising and Marketing Track

| BADM 210 | Principles of Marketing | 3 CH |
| :--- | :--- | :--- |
| BADM 324 | Advertising | 3 CH |
| BADM 376 <br> or <br> BADM 456 | International Business | 3 CH |

Three of the following:

| IS 140 | Graphic Applications | 3 CH |
| :--- | :--- | :--- |
| BADM 455 | Cooperative Education | CH var. |
| COMM 280 | Survey Mediated Communication | 3 CH |
| COMM 282 | Writing for Mass Media | 3 CH |
| COMM 331 | Intercultural Communication | 3 CH |
| COMM 340 | Public Relations | 3 CH |
| Finance Track |  |  |
| BADM 344 | Finance | 3 CH |
| CSCI 120 | Introduction to Data Analytics | 3 CH |

Four of the following:

| ACCT 213 | Intermediate Accounting I | 3 CH |
| :--- | :--- | :--- |
| BADM 304 | Principles of Investments | 3 CH |
| BADM 334 | Risk Management and Insurance | 3 CH |
| BADM 376 | International Business | 3 CH |
| BADM 490 | Strategic Management | 3 CH |
| CSCI 179 | Programming - Visual Basic | 4 CH |
| Management Track <br> Two of the following: | Finance |  |
| BADM 344 | Operations Management | 3 CH |
| BADM 444 | Human Resource Management | 3 CH |
| BADM 484 | Strategic Management | 3 CH |
| BADM 490 |  | 3 CH |

Two of the following:

| BADM 210 | Principles of Marketing | 3 CH |
| :---: | :---: | :---: |
| BADM 334 | Risk Management and Insurance | 3 CH |
| BADM 364 | Business Ethics | 3 CH |
| BADM 376 | International Business | 3 CH |
| BADM 455 | Cooperative Education | CH var. |
| BADM 474 | Ruth A. Miller Senior Seminar | 3 CH |
| BADM 490 | Strategic Management | 3 CH |
| CIS 241 | Project Management | 3 CH |
| Human Resource Management Track |  |  |
| BADM 470 | Employment Law | 3 CH |
| BADM 484 | Human Resource Management | 3 CH |
| PSY 150 | General Psychology | 3 CH |
| One of the following: |  |  |
| COMM 225 | Interpersonal Communication | 3 CH |
| PSY 223 | Social Psychology | 3 CH |
| ACCT 253 | Payroll Accounting | 3 CH |
| BADM 334 | Risk Management and Insurance | 3 CH |
| Graduate School Track |  |  |
| MATH 181 | Calculus | 4 CH |
| All of the following: |  |  |
| BADM 210 | Principles of Marketing | 3 CH |
| BADM 344 | Finance | 3 CH |
| BADM 444 | Operations Management | 3 CH |
| BADM 484 | Human Resource Management | 3 CH |
| BADM 490 | Strategic Management | 3 CH |


| Sports Management Track |  |  |
| :--- | :--- | :--- |
| BADM 105 | Introduction to Sports Management | 3 CH |
| HPED 314 | Coaching Organization \& Admin. | 3 CH |
| BADM 450 | Facilities Management Practicum | 1 CH |
| BADM 452 | Sports Information Practicum | 1 CH |
| INDS 155 | Principles of Ethical Leadership | 3 CH |
| Choose one of the following: |  |  |
| BADM 210 | Principles of Marketing | 3 CH |
| BADM 324 | Advertising | 3 CH |
| BADM 490 | Strategic Management | 3 CH |
| Supply Chain Management Track |  | 3 CH |
| CIS 241 | Project Management | 3 CH |
| BADM 444 | Operations Management | 3 CH |
| BADM 480 | Supply Chain Management and Logistics | 3 CH |

Transfer students are required to complete at Thiel College a minimum of four upper-level courses required for the major.

## Conservation Biology

## Bachelor of Arts Degree

A student who graduates from Thiel College with a major in conservation biology will:

- Understand biological principles and their implications including: evolution; structure and function; information flow, exchange, and storage; pathways and transformation of energy and matter; and biological systems.
- study, analyze experimentally and interpret biological problems including: a. modeling and simulation b. quantitative reasoning c. generation of lab reports that reflect methodology
- understand the interdisciplinary nature of conservation strategies and societal implications.
- be able to effectively communicate about biological matters in both oral and written form.
- be prepared for discipline-related or admission into a discipline-related graduate or professional program.
I. Foundational Courses

| BIO 145 | Foundations of Biology | 4 CH |
| :--- | :--- | :--- |
| BIO 116 | Conservation Biology | 4 CH |
| BIO 263 | Plant Systematics | 4 CH |

And one of the following two courses:

| BIO 262 | Animal Systematics | 4 CH |
| :--- | :--- | :--- |
| BIO 272 | Entomology | 4 CH |

II. Breadth in the Discipline

BIO 342

| Biostatistics and Research Methods | 4 CH |
| :--- | :--- |
| General Ecology | 4 CH |

And one of the following two courses:

| BIO 290 | Cell Biology | 4 CH |
| :--- | :--- | :--- |
| BIO 322 | Genetics | 4 CH |

And two of the following courses:

| BIO 212 | Microbiology | 4 CH |
| :--- | :--- | :--- |
| BIO 222 | Entomology | 4 CH |


| BIO 262 | Animal Systematics | 4 CH |
| :--- | :--- | :--- |
| BIO 272 | Animal Behavior | 4 CH |
| BIO 273 | Toxicology | 4 CH |
| BIO 302 | Plant Physiology | 4 CH |
| BIO 394 | Aquatic Ecology | 4 CH |

Note: Courses applied as foundational courses may not also be applied as breadth in the discipline courses.

## III. Senior Capstone Experience in Biology

A completed research project under the supervision of a biology department faculty member is required of the student majoring in biology. The project is culminated with a formal scientific research paper and a formal oral presentation.
Students must take both of these courses.

| BIO 395 | Junior Research Seminar | 1 CH |
| :--- | :--- | :--- |
| BIO 462 | Senior Seminar | 2 CH |

And one of the following two courses:

| BIO 452 | Advanced Biology | 2 CH |
| :--- | :--- | :--- |
| BIO 482 | Independent Study | 2 CH |

IV. Specified I.R. courses, related sciences (because of the interdisciplinary nature of the major)

MATH $107 \quad$| College Algebra (minimum |
| :--- |
| requirement) |$\quad 3 \mathrm{CH}$

And one of the following three pairings:

| CHEM 140 | General Chemistry I | 4 CH |
| :--- | :--- | :--- |
| CHEM 160 | General Chemistry II | 4 CH |

OR

| PHYS 154 | Physics I (non-calc based) | 4 CH |
| :--- | :--- | :--- |
| PHYS 164 | Physics II (non-calc based) | 4 CH |
| OR |  |  |
| PHYS 174 | Physics I (calculus based) | 4 CH |
| PHYS 184 | Physics II (calculus based) | 4 CH |

And one of the following

| POSC 116 |  | American Government and Politics | 3 CH |
| :---: | :---: | :---: | :---: |
| POSC 236 |  | Public Policy | 3 CH |
| And one of the following |  |  |  |
| ECON 211 |  | Macroeconomics | 3 CH |
| ECON 221 |  | Microeconomics | 3 CH |
| And one of the following |  |  |  |
| SOC 141 |  | Macrosociology | 3 CH |
| SOC 211 |  | Anthropology | 3 CH |
| And one of the following |  |  |  |
| REL 200 |  | Contemporary Ethical Issues | 3 CH |
| PHIL 267 |  | Ethics | 3 CH |
| PHIL 297 |  | Environmental Ethics | 3 CH |
| And a Foreign language, especially Spanish (I.R. I) |  |  |  |
| Note: These courses can be applied to the CORE. |  |  |  |
| Suggested schedule of science courses for conservation biology majors (B.A.) |  |  |  |
|  | Fall | Spring |  |
| 1 | BIO 145: Foundations of Biology CHEM 140: General Chemistry I MATH 107: College Algebra | BIO 262 Animal Systematics or BIO Elective CHEM 160 General Chemistry II BIO 116 Conservation Biology |  |
| 2 | BIO 222 Entomology or BIO 263 Plant Systematics | BIO 262 Animal Systematics or BIO Elective and BIO 290 Cell Biology |  |
| 3 | BIO 392 Ecology or BIO Elective and <br> BIO 322 Genetics | BIO 342 Biostatistics and Research Methods <br> BIO 395 Junior Research Seminar |  |
| 4 | BIO 462 Senior Seminar | BIO 452 Advanced Biolo or <br> BIO 482 Independent Stud |  |

## Criminal Justice Studies

## Bachelor of Arts Degree

The program is framed by Thiel College's commitment to the liberal arts, signifying the importance of supporting the development of humane and altruistic perspectives of students in all fields of thought and work.

Graduates from the program may work in courts, law enforcement, probation and parole, specialized treatment programs, public and private agencies such as juvenile probation, child and protective services and other occupations dedicated to principles of behavior reform.

The major in criminal justice studies (CJS) requires a minimum of 43 semester credit hours, distributed according to the rules presented below. (Note: All courses listed are three credit hours unless otherwise indicated)

## Major Requirements

The major requires a minimum of 43 credit hours and must include the following courses:

| CJS 101 | Introduction to Criminal Justice Studies | 3 CH |
| :--- | :--- | :--- |
| SOC 121 <br> or <br> SOC 141 | Microsociology | 3 CH |
| SOC 215 | Macrosociology |  |
| CJS 221 | Statistics for the Social Sciences | 3 CH |
| CJS 230 | Larrections in America | 3 CH |
| PHIL 267 | Ethics | 3 CH |
| CJS 301 or <br> CJS 305 | Juvenile Justice Studies <br> Victimology | 3 CH |
| SOC 321 or <br> SOC 331 | Deviance <br> Criminology | 3 CH |
| SOC 341 | Social Research Methods | 3 CH |
| SOC 342 | Sociological Theory | 3 CH |
| SOC/CJS 371 | Professional Seminar | 3 CH |
| CJS/POSC 438 or <br> CJS/POSC 439 or <br> POSC 445 | Criminal Due Process <br> Criminal Law <br> The Great American Trial | 1 CH |
| CJS 440 | Capstone in Criminal Justice Studies | 3 CH |

Criminal justice studies majors must also take six elective credit hours in courses 200 and above, with exceptions permitting POSC 116 and SOC 191, to fulfill the 43 required credit hours. Students may choose from the unselected courses above or any of the following:

| SOC 191 | Social Problems | 3 CH |
| :---: | :---: | :---: |
| SOC 251 | Minorities | 3 CH |
| SOC 435 | Popular Culture | 3 CH |
| ACCT 453 | Forensic Accounting and Fraud Examination | 3 CH |
| BADM 355 | Business Law I | 3 CH |
| ENSC 200 | Introduction to Environmental Law | 3 CH |
| POSC 116 | American Government | 3 CH |
| POSC 186 | Introduction to Legal Studies | 3 CH |
| POSC 226 | State and Local Politics and Policy | 3 CH |
| POSC 236 | Public Policy | 3 CH |
| POSC 316 | Topics: Civil Rights and Liberties | 3 CH |
| POSC 388 | The Death Penalty | 3 CH |
| POSC 436 | Constitutional Law | 3 CH |
| POSC 438 | Criminal Due Process Rights | 3 CH |
| POSC 439 | Criminal Law | 3 CH |
| POSC 445 | The Great American Trial | 3 CH |
| PSY 241 | Abnormal Behavior | 3 CH |
| PHIL 337 | Freedom, Justice \& Political Power | 3 CH |
| PHIL 347 | Social and Political Philosophy | 3 CH |
| PHIL 377 | Legal Philosophy | 3 CH |

Students electing to double major in sociology and criminal justice studies may not use the same elective courses to satisfy the elective requirement in both majors.

An elective, experiential educational opportunity in criminal justice studies areas is strongly encouraged. Internships may be in the local area, Washington, D.C., via Thiel College's Washington Semester programs or in another region accessible to the student and approved by the program's administrators (e.g. Harrisburg, PA, a nearby city or near the student's home.) Credit hours awarded are variable (1 to 16), depending on the program selected.

A declaration of a major in criminal justice studies must be filed no later than the first semester of the junior year.

## Forensic Accounting

## Bachelor of Arts Degree

The objective of the forensic accounting major is to develop skills in accounting, auditing and investigating to uncover truth while conducting financial and/or systems examinations. Forensic accountants are needed for litigation support, corporate investigations, criminal matters and preparing and assessing Risk Management and Insurance claims and damages.

## Major Requirements

| ACCT 113 | Principles of Accounting I | 3 CH |
| :--- | :--- | :--- |
| ACCT 123 | Principles of Accounting II | 3 CH |
| ACCT 213 | Intermediate Accounting I | 3 CH |
| ACCT 223 | Intermediate Accounting II | 3 CH |
| ACCT 313 | Cost Accounting | 3 CH |
| ACCT 323 | Taxation-Personal | 3 CH |
| ACCT 333 | Taxation-Corporate | 3 CH |
| ACCT 412 | Accounting Information Systems | 3 CH |
| ACCT 423 | Auditing | 3 CH |
| ACCT 453 | Forensic Accounting and Fraud Examination | 3 CH |
| BADM 344 | Finance | 3 CH |
| BADM 355 | Business Law I | 3 CH |
| BADM 356 | Business Law II | 3 CH |
| BADM 374 | Principles of Management | 3 CH |
| BADM 384 | Business Communication | 3 CH |
| CIS 111 or <br> CIS 114 | Wrerd Processing Applications | 1 CH |
| Presentation Applications |  |  |


| CIS 112 | Spreadsheet Applications | 1 CH |
| :--- | :--- | :--- |
| CIS 122 | Advanced Spreadsheet Apps | 1 CH |
| CIS 129 | Fundamentals of Info Systems | 3 CH |
| CSCI 351 | Info Systems Security \& Forensics | 3 CH |
| MATH 211 | Elementary Statistics | 4 CH |

## International Business

## Bachelor of Arts Degree

This program prepares students for attractive career opportunities as major U.S. and foreign corporations continue to expand in international markets. A student who graduates from Thiel College with a major in international business will demonstrate:

- the ability to perform basic business management functions.
- competency in data analysis techniques, including use of spreadsheets and databases.
- facility in resolving ethical dilemmas faced by business managers.
- interpersonal skills and learn to be a valuable member of a team.
- the ability to communicate effectively in oral and written form.


## Major Requirements*

| ACCT 113 | Principles of Accounting I | 3 CH |
| :--- | :--- | :--- |
| BADM 233 | Managerial Accounting | 3 CH |
| MATH 211 | Elementary Statistics | 4 CH |
| CIS 111 | Word Processing Applications | 1 CH |
| CIS 112 | Spreadsheet Applications | 1 CH |
| CIS 113 <br> or <br> CIS 122 | Data Management Applications | 1 CH |
| CIS 129 | Fundamentals of Info Systems |  |
| ECON 211 | Principles of Macroeconomics | 3 CH |
| ECON 221 | Principles of Microeconomics | 3 CH |
| POSC 146 | World Regional Geography | 3 CH |
| GEOG 110 | International Business | 3 CH |
| BADM 376 | International Marketing | 3 CH |
| BADM 456 | Business Law I | 3 CH |
| BADM 355 | Business Law II | 3 CH |
| BADM 356 | Intercultural Communication | 3 CH |
| COMM 331 | 3 CH |  |

Any three:

| BADM 344 | Finance | 3 CH |
| :--- | :--- | :--- |
| BADM 374 | Principles of Management | 3 CH |
| BADM 444 | Operations Management | 3 CH |
| BADM 210 | Introduction to Marketing | 3 CH |
| BADM 484 | Human Resource Management | 3 CH |

Any one:

| POSC 327 | Politics of Developing Societies | 3 CH |
| :--- | :--- | :--- |
| POSC 347 | Politics of Industrialized Societies | 3 CH |

## Medical Technology

## Bachelor of Arts Degree

## Dr. Michael T. Balas, Adviser and Coordinator

A student who graduates from Thiel College with a major in medical technology will:

- understand basic biological and chemical principles that are necessary to understand clinical laboratory applications.
- study, analyze experimentally and interpret biological and chemical principles that are necessary to understand clinical laboratory applications.
- be able to effectively communicate in written and oral form basic biological and chemical principles that are necessary to understand clinical applications.
- be prepared for discipline-related employment.

A student must complete three BIO or CHEM lab courses by the end of sophomore year (with a C- or better). Not meeting these requirements would be considered failure to progress and the student's name will be sent to the Academic Standing Committee for review, at the discretion of the department.

All of the following courses:

| BIO 145 | Foundations of Biology | 4 CH |
| :--- | :--- | :--- |
| BIO 212 | Microbiology | 4 CH |
| BIO 295 | General Parasitology | 4 CH |
| BIO 280 | Human Anatomy and Physiology I | 4 CH |
| BIO 350 | Principles of Immunology | 3 CH |
| CHEM 140 | General Chemistry I | 4 CH |
| CHEM 160 | General Chemistry II | 4 CH |
| CHEM 200 | Organic Chemistry I | 4 CH |
| CHEM 240 | Quantitative Analysis | 4 CH |
| MATH 211 | Elementary Statistics | 4 CH |
| PSY 150 | General Psychology | 3 CH |

In the senior year, majors in allied health-medical technology must attend one of the hospitals affiliated with Thiel College, or any other hospital with an ASCP-approved program in medical technology for a year of clinical and classroom work.

The medical technology professional study year includes the following courses: clinical microbiology, clinical chemistry, clinical hematology/coagulation, clinical immuno-hematology, clinical immunology/serology and clinical seminar. Thiel awards 32 credit hours for the professional study year when satisfactorily completed.

# Public Relations, Advertising and Integrated Marketing Communication 

## Bachelor of Arts Degree

The public relations, advertising, and integrated marketing communication major is a cooperative program offered through the Arthur McGonigal Department of Business Administration and Accounting and the Department of Media, Communication and Public Relations. This joint venture includes a variety of courses in public relations, advertising, integrated marketing communication, interpersonal communication, media, accounting, business management, computer information systems, computer science, and economics. This degree has been designed in response to employers, who are demanding that their public relations and advertising professionals complete extensive coursework in business administration. The degree has two slightly different tracks, depending on whether the student anticipates eventually working in general management (management-oriented track) or not (media-oriented track).

The public relations, advertising and integrated marketing major helps prepare students for a variety of jobs in public relations, advertising, and marketing, working in PR/advertising agencies, corporations or small businesses (including media companies), large and small nonprofit organizations, or government. It also helps prepare students for graduate study in public relations, advertising, marketing, business administration (such as an MBA degree), nonprofit management, or business journalism.

A student who graduates from Thiel College with a major in public relations, advertising, and integrated marketing communication will:

- Be able to effectively create persuasive messages.
- Understand the ethical issues in media work created by First Amendment freedoms and be able to act in ethical ways.
- Understand and be able to apply adaptive leadership and collaboration skills.
- Be able to analyze, apply current theories and approaches to decision-making in Public Relations.
- Demonstrate effective communication in oral and written forms in the field.


## Major Requirements

Students must maintain a minimum cumulative GPA of 2.0 in courses in the major.

## Management Track

| COMM 155 | Introduction to Integrated Marketing Comm. | 3 CH |
| :--- | :--- | :--- |
| COMM 225 <br> or <br> COMM 321 | Interpersonal Communication | 3 CH |
| COMM 280 | Organizational Communication |  |
| COMM 282 | Survey of Mediated Comm. | 3 CH |


| COMM 325 | Communication Ethics | 3 CH |
| :--- | :--- | :--- |
| COMM 340 | Public Relations | 3 CH |
| COMM 405 | Advanced Public Relations | 3 CH |
| COMM 470 | Senior Seminar | 3 CH |
| COMM 480 | Internship | 3 CH |
| CIS 111 | Word Processing Applications | 1 CH |
| CIS 112 | Spreadsheet Applications | 1 CH |
| CIS 122 | Advanced Spreadsheet Apps | 1 CH |
| ACCT 113 | Principles of Accounting | 3 CH |
| BADM 210 | Principles of Marketing | 3 CH |
| BADM 233 | Managerial Accounting | 3 CH |
| BADM 324 | Advertising | 3 CH |
| BADM 355 | Business Law I | 3 CH |
| BADM 374 | Principles of Management | 3 CH |
| BADM 384 | Business Communication | 3 CH |
| ECON 221 | Microeconomics | 3 CH |

TOTAL 54 CH

Recommended: IS 140—Graphic Arts; COMM 181—Public Speaking; COMM 300—Persuasion; COMM 331— Intercultural Communication; and COMM 455-Media Law \& Regulation

| Media Track |  |  |
| :--- | :--- | :--- |
| COMM 155 | Introduction to Integrated Marketing Comm. | 3 CH |
| COMM 225 <br> or <br> COMM 321 | Interpersonal Communication | 3 CH |
| COMM 280 | Organizational Communication |  |
| COMM 282 | Writing for Media | 3 CH |
| COMM 325 | Communication Ethics | 3 CH |
| COMM 340 | Public Relations | 3 CH |


| COMM 405 | Advanced Public Relations | 3 CH |
| :--- | :--- | :--- |
| COMM 470 | Senior Seminar | 3 CH |
| COMM 480 | Internship | 3 CH |
| CIS 111 | Word Processing Applications | 1 CH |
| CIS 112 | Spreadsheet Applications | 1 CH |
| CIS 122 | Advanced Spreadsheet Apps | 1 CH |
| BADM 100 | Introduction to Business | 3 CH |
| CSCI 139 | Web Design \& Development | 3 CH |
| BADM 210 | Principles of Marketing | 3 CH |
| BADM 324 | Advertising | 3 CH |
| BADM 374 | Principles of Management | 3 CH |
| BADM 384 | Business Communication | 3 CH |
| BADM 456 | International Marketing | 3 CH |
| ECON 221 | Microeconomics | 3 CH |

TOTAL 54 CH

Recommended: IS 140—Graphic Arts; COMM 181—Public Speaking; COMM 300—Persuasion; COMM 331— Intercultural Communication; and COMM 455-Media Law \& Regulation

Students should consider being involved in relevant extracurricular activities such as student media.

## Communication Studies

## Bachelor of Arts Degree

Human communication is a transactional process in which persons share meaning. The communication studies major includes a variety of courses including public speaking, small group and organizational communication, persuasion, rhetorical theory, and intercultural communication. Students can become more proficient thinkers and speakers as they learn the theories and skills associated with human communication, whether in their professional, personal, economic or civic lives.

The communication studies major prepares students for a wide variety of jobs in which sound human communication skills are especially significant and necessary. It also prepares students for graduate study in communication.

A student who graduates from Thiel College with a major in communication studies will:

- Be able to adapt to various levels of communication such as interpersonal, small group, and organization.
- Be able to apply effective argumentation and persuasion skills to interpersonal, small group, and organizational communication.
- Understand the ethical issues involved in the various levels of communication such as interpersonal, small group, and organizational communication.
- Demonstrate effective communication in oral and written forms in the field.


## Major Requirements

| COMM 171 | Introduction to Communication | 3 CH |
| :--- | :--- | :--- |
| COMM 175 | History of Communication | 3 CH |
| COMM 181 | Public Speaking | 3 CH |
| COMM 225 | Interpersonal Communication | 3 CH |
| COMM 250 | Small Group Communication | 3 CH |
| COMM 265 | Communication and Gender | 3 CH |
| COMM 281 | Media Literacy | 3 CH |
| COMM 300 | Persuasion | 3 CH |
| COMM 321 | Organizational Communication | 3 CH |
| COMM 325 | Communication Ethics | 3 CH |
| COMM 331 | Intercultural Communication | 3 CH |
| COMM 455 | Media Law \& Regulation | 3 CH |


| COMM 470 | Senior Seminar | 3 CH |
| :--- | :--- | :--- |
| Choose one |  |  |
| COMM 155 | Introduction to Integrated Marketing <br> COMM 220 | Introduction to Digital and Print Journalism <br> COMM 235 <br> COMM 440 |

TOTAL 42 CH

Students must maintain a minimum cumulative GPA of 2.0 in the major.
It is recommended that students majoring in communication studies take an internship and become involved with extracurricular activities in theatre and student media.

## Computer Science

## Bachelor of Arts Degree

Computer science is the study of problem solving. The primary goal of the program is to develop problem-solving skills in students. With that in mind, the emphasis of this major is to prepare graduates to understand the field of computing, both as an academic discipline and as a profession.

Further, the major is designed to challenge students to consider the ethical and societal issues that are associated with the computing field, to prepare students to rigorously apply their knowledge to the solution of specific, constrained problems, to expose students to the rich theoretical basis of the field and to integrate their understanding of computing with the foundation of a liberal arts education.

A student who graduates from Thiel College with a major in Computer Science will be able to

- Apply the principles of logic and mathematics to the design, analysis, and implementation of computation algorithms
- Utilize high-level programming languages and data structures to implement software solutions to computing problems in a variety of fields
- Understand the principles of computer design and management of computer systems from both theoretical and practical standpoints
- Communicate technical and computing information effectively, both in oral and written formats


## Major Requirements

All courses that are applied to the major must be completed with a grade of C - or higher.
To satisfy the prerequisite for a course the student must earn a C - or higher in the listed course(s). A prerequisite may always be waived for selected students by permission of the instructor. Junior or senior standing is required for courses numbered 300 and above.

Computer Science majors intending to attend graduate school are strongly encouraged to pursue a minor in Mathematics at Thiel College.

| MATH 181 | Calculus I | 4 CH |
| :--- | :--- | :--- |
| MATH 182 | Calculus II | 4 CH |
| MATH 211 | Elementary Statistics | 4 CH |
| MATH 221 | Discrete Mathematical Structures | 3 CH |
| CSCI 109 | Principles of Computer Science | 3 CH |
| CSCI 159 | Introduction to Programming | 4 CH |
| CSCI 169 | Data Structures | 4 CH |


| CSCl 269 | Theory of Programming Languages | 4 CH |
| :--- | :--- | :--- |
| CSCl 319 | Database Management | 4 CH |

Choose one of the following two courses:

| CSCl 347 | Theory of Computation | 3 CH |
| :--- | :--- | :--- |
| CSCl 369 | Design and Analysis of Algorithms | 3 CH |
|  |  | 4 CH |
| CSCl 419 | Computer Organization with Assembler | 3 CH |
| CSCl 427 | Operating Systems | $3-4 \mathrm{CH}$ |
| $\operatorname{CSCl} 300+$ | any 300-level course or higher |  |

# Early Childhood Education (ECE) PreK-4 and Special Education PreK-12 Degree 

## Bachelor of Arts

## A student who graduates from Thiel College with a major in Early Childhood and Special Education will:

1. Demonstrate oral, written, and presentation communication skills appropriate to the field.
2. Demonstrate mastery of major content knowledge areas and pedagogical strategies to design engaging and meaningful instruction and learning activities.
3. Demonstrate their knowledge of diversity by addressing learners' commonalities and individual differences to design inclusive learning experiences.
4. Apply the Council for Accreditation of Education Preparation (CAEP) standards to the field of PK-4/SPED PK-12.
5. Understand and demonstrate effectiveness by designing rigorous and effective lessons and learning experiences.

## Early Childhood and Special Education

## ECE 110 Child Development, Typical and Atypical, Birth-Age 5

ECE 111 Foundations of Education
ECE 112 The Developing Child-The Primary Years K-4th Grade
ECE 213 Language Development for Early Childhood
ECE 214 Early Literacy Foundations for Preschool Years
ECE 215 The Learning Process: Integrating Curriculum, Instruction \& Assessment
ECE 216 Math Foundations for the Preschool Years
ECE 304 Literacy Foundations for the Primary Grades
ECE 334 Math Foundations for the Primary Grades
ECE 335 Science Methods
ECE 336 Social Studies Methods
ECE 355 Evidence-Based Practices in Early Childhood Care and Education
ECE 367 Advocacy Collaboration and Cooperative Learning Issues and Trends
ECE 369 Integrating the Arts for the Developing Child, Pre K-4
ECE 420 Using Instructional Technology and Universal Design to Support Literacy, Math and Science
Achievement
ECE 424 Student Teaching

SPED 356 Special Education: Processes, Procedures, Screening, Assessment, IEP Development and Evaluation
SPED 357 Effective Instructional Practices and Delivery Methods in Subject Area Content for All Levels of Special Education Support
SPED 358 Intensive Reading, Writing and Math Intervention Approaches
SPED 360 Educational Assessment
EDUC 400 Educating English Language Learners
SPED 420 Effective Collaboration and Communication in the Academic Setting
SPED 424 Student Teaching
SPED 440 Evidence-Based Effective Instruction - Teaching Students with Behavioral Disabilities
SPED 450 Instructing Students with Low and High Disabilities
SPED 470 Transitions Across the Lifespan of All Students with Special Needs

## Health Systems Major

## Bachelor of Arts Degree

Dr. Neil Lax, Advisor

The Health Systems major provides student with an interest in a career in healthcare a broad foundation in biology, chemistry, psychology and ethics. Additionally, the major provides many of the prerequisite courses needed for transition to bachelor of nursing (BSN) or occupational therapy (OT), physical therapy (PT), and physician's assistant (PA) graduate programs. The major was designed to simplify double-majors with several other areas.

## Program Objectives:

Upon completion of the major, students will be able to:

- Design and evaluate scientific questions through hypothesis, generation, experimentation, and data analysis
- Communicate effectively in oral and written form


## Major Requirements (43-44 CH)

## Core Courses

All of the following courses:

| BIO 117 | Medical Terminology | 3 CH |
| :--- | :--- | :--- |
| BIO 212 | Microbiology | 4 CH |
| BIO 280 | Human Anatomy and Physiology I | 4 CH |
| BIO 281 | Human Anatomy and Physiology II | 4 CH |
| CHEM 140 | General Chemistry I | 4 CH |
| CHEM 160 | General Chemistry II | 4 CH |
| PSY 150 | General Psychology | 3 CH |
| NSCI 202 | Introduction to Neuroscience | 4 CH |

Choose ONE of the following:

| BIO 145 | Foundations of Biology | 4 CH |
| :--- | :--- | :--- |
| NSCI 101 | Brain and Behavior | 4 CH |

Choose ONE of the following:

Choose ONE of the following:

| PHIL 267 | Ethics | 3 CH |
| :--- | :--- | :--- |
| PHIL 387 | Medical Ethics | 3 CH |
| REL 200 | Contemporary Ethical Issues | 3 CH |

Choose ONE of the following:

| PSY 255 | Lifespan Development | 3 CH |
| :--- | :--- | :--- |
| PSY 262 | Child Development | 3 CH |
| PSY 272 | Adulthood and Aging | 3 CH |

## History

## Bachelor of Arts Degree

History majors must successfully complete 39 credit hours in history, which are outlined below. All courses applied to the history major/minor must be completed with a C- or better.


## Mathematics

## Bachelor of Arts Degree

The major in Mathematics places a focus on the logic and critical thinking needed to solve difficult problems. It is increasingly clear that many careers created by our technology-oriented society demand both the knowledge and skills possessed by trained mathematicians. The Mathematics major at Thiel College seeks to prepare students for various occupations in academics, government, and industry available to mathematicians.

To satisfy the prerequisite for a particular course, the student must earn a grade of C- or higher in courses listed as prerequisites. Prerequisites may be waived at the discretion of the course instructor. Students are not permitted to enroll in a course for credit if the course serves as a prerequisite to a course which the student has already successfully completed.

A student who graduates from Thiel College with a degree in Mathematics will be able to:

- Use abstract logic and reasoning skills to understand mathematical theorems and their proofs, and also construct proofs to mathematical statements.
- Use mathematics to model real world phenomena and use these models to make predictions.
- Communicate mathematical concepts effectively, both orally and in writing.


## Major Requirements

To complete the major in Mathematics, a student must fulfill these requirements successfully:

1. Complete all of the required courses:

| MATH 181 | Calculus I | 4 CH |
| :--- | :--- | :--- |
| MATH 182 | Calculus II | 4 CH |
| MATH 281 | Calculus III | 4 CH |
| MATH 291 | Linear Algebra | 4 CH |
| MATH 302 | Real Analysis | 4 CH |
| MATH 371 | Differential Equations | 4 CH |

2. Complete one of the following sequences:

## Sequence 1

| MATH 311 | Non-Euclidean Geometry | 3 CH |
| :--- | :--- | :--- |
| MATH 331 | Abstract Algebra | 3 CH |

## Sequence 2

| MATH 451 | Probability | 4 CH |
| :--- | :--- | :--- |
| MATH 461 | Statistics | 4 CH |

## Sequence 3

| MATH 432 | Numerical Methods | 4 CH |
| :--- | :--- | :--- |
| MATH 433 | Mathematical Modeling | 3 CH |

3. Complete an additional 3-4 CH mathematics course numbered 220 or above. PHYS 363 (Mathematical Physics) can be counted as a mathematics class for the purpose of this requirement. The Capstone Seminar, MATH 341 and MATH 342 cannot be used to fulfill this requirement.
4. Complete MATH 482 Capstone Seminar. The capstone project can take the form of a supervised research experience (such as REU), an approved internship, or student teaching (for Education majors). Research projects should be presented at an appropriate venue, such as a Thiel Forum, Thiel Research Symposium, or professional conference.
5. Complete

One of the following two:

| PHYS 174 | Introductory Physics I | 4 CH |
| :--- | :--- | :--- |
| PHYS 184 | Introductory Physics II | 4 CH |
| and one of the following two |  |  |
| CSCI 159 | Intro to Programming | 4 CH |
| CSCI 189 | Java Programming | 4 CH |

Students planning on attending graduate school in mathematics should include PHYS 184, as well as:

- Abstract Algebra (for pure math)
- Numerical Analysis, Mathematical Modeling, Mathematical Physics (for applied math) in their course of study.


## Media and Journalism

## Bachelor of Arts Degree

Media now include many forms of mass communication and social media to reach a wide variety of audiences via different media, ranging from the Internet, newspapers, magazines, newsletters, and books, to television, radio, film and video. The Media and Journalism major offers and requires a variety of foundational and skills courses to help prepare students to enter the "real world" of media. The blending of media law and media ethics with hands-on skills is inherent in this major's courses. Media and Journalism graduates also benefit substantially from the College's core curriculum and electives in social sciences, sciences, humanities, fine and performing arts because today's media professionals need both a broad knowledge background and multiple specialized areas of expertise.

The media and journalism major has two quite different course tracks; students must choose one starting when they declare the major. The television, radio, and digital media track is designed for students planning to work in television (broadcast, cable, satellite, digital, mobile) and/or radio (broadcast, satellite, digital). The digital and print media track is designed for students planning to work in digital-only news media, or newspapers, magazines, newsletters, and news services (such as Associated Press), and their digital media (websites, social media, and mobile media).

A student who graduates from Thiel College with a major in media and journalism will:

- Demonstrate the knowledge and skill to create information/education message products.
- Be able to effectively conduct fact-based research in the field.
- Understand the ethical issues in media work created by First Amendment freedoms and be able to act in ethical ways.
- Demonstrate the ability to prepare, plan and execute production plans.
- Demonstrate the ability to effectively communicate in oral and written forms in the field.


## Major Requirements

At minimum, students must maintain a cumulative GPA of 2.0 in the major.

## Television, Radio and Digital Media Track

| COMM 235 | Announcing | 3 CH |
| :--- | :--- | :--- |
| COMM 280 | Survey of Mediated Comm. | 3 CH |
| COMM 282 | Writing for Media | 3 CH |
| COMM 301 | Radio Broadcasting \& Production | 3 CH |
| COMM 302 | TV Studio Production | 3 CH |
| COMM 303 | Field Production \& Editing | 3 CH |
| COMM 304 | Digital Television and Radio Newswriting | 3 CH |


| COMM 305 | Television News Production | 3 CH |
| :--- | :--- | :--- |
| COMM 325 | Communication Ethics | 3 CH |
| COMM 360 | Co-Curricular Practicum I: The Thielensian | 1 CH |
| COMM 365 | Co-Curricular Practicum II: TCTV | 1 CH |
| COMM 371 | Co-Curricular Practicum III: WXTC | 1 CH |
| COMM 455 | Media Law and Regulation | 3 CH |
| COMM 470 | Senior Seminar | 3 CH |
| COMM 480 | Communication Internship | 3 CH |
| CIS 113 | Data Management Applications | 1 CH |
| CIS 129 | Fundamentals of Information Systems | 3 CH |
| CSCI 139 | Web Design and Development | 3 CH |
| CSCI 159 | Introduction to Programming | 4 CH |

TOTAL 50 CH

Digital and Print Media Track

| COMM 220 | Introduction to Digital and Print Journalism | 3 CH |
| :--- | :--- | :--- |
| COMM 280 | Survey of Mediated Comm. | 3 CH |
| COMM 281 | Media Literacy | 3 CH |
| COMM 315 | Digital and Print Feature \& Opinion Writing | 3 CH |
| COMM 325 | Communications Ethics | 3 CH |
| COMM 340 | Public Relations | 3 CH |
| COMM 350 | Print Media Production | 3 CH |
| COMM 360 | Co-Curricular Practicum I: The Thielensian | 1 CH |
| COMM 365 | Co-Curricular Practicum II: TCTV | 1 CH |
| COMM 371 | Co-Curricular Practicum III: WXTC | 1 CH |
| COMM 455 | Media Law and Regulation | 3 CH |
| COMM 470 | Senior Seminar | 3 CH |
| COMM 480 | Communication Internship | 3 CH |


| CIS 113 | Data Management Applications | 1 CH |
| :--- | :--- | :--- |
| CIS 129 | Fundamentals of Information Systems | 3 CH |
| CSCI 139 | Web Design and Development | 3 CH |
| CSCI 159 | Introduction to Programming | 4 CH |
|  |  | TOTAL 44 CH |

## Neuroscience

## Bachelor of Arts Degree

Major Requirements (42-44 CH)

## Core Courses

| NSCl 101 | Brain and Behavior | 4 CH |
| :--- | :--- | :--- |
| NSCl 202 | Introduction to Neuroscience | 4 CH |
| NSCl 303 | Techniques in Neuroscience | 4 CH |
| NSCl 313 | Junior Seminar in Neuroscience | 2 CH |
| NSCl 404 | Advanced Neuroscience | 3 CH |
| NSCl 414 | Senior Seminar in Neuroscience | 2 CH |

Choose ONE of the following:

| NSCI 489 | Internship in Neuroscience | 2 CH |
| :--- | :--- | :--- |
| NSCI 499 | Independent Research in Neuroscience | 2 CH |

Related Courses
PSY $150 \quad$ General Psychology 3 CH

PSY 215 Statistics for the Social Sciences 3 CH

Choose TWO of the following:

| PSY 223 | Social Psychology | 3 CH |
| :--- | :--- | :--- |
| PSY 241 | Abnormal Behavior | 3 CH |
| PSY 255 | Lifespan Development | 3 CH |
| PSY 262 | Child Development | 3 CH |
| PSY 272 | Adulthood and Aging | 3 CH |
| PSY 342 | Cognitive Psychology | 3 CH |
| PSY 352 | Sensation and Perception | 3 CH |
| PSY 450 | Topics in Psychology | 3 CH |

Choose ONE of the following:

| PHIL 267 | Ethics | 3 CH |
| :---: | :---: | :---: |
| PHIL 387 | Medical Ethics | 3 CH |
| REL 200 | Contemporary Ethical Issues | 3 CH |
| Elective Courses - Choose TWO, from TWO different departments. Note: elective courses may have prerequisites not listed here |  |  |
| BIO 272 | Animal Behavior | 4 CH |
| BIO 281 | Human Anatomy and Physiology II | 4 CH |
| BIO 290 | Cell Biology | 4 CH |
| BIO 322 | Genetics | 4 CH |
| BIO 343 | Developmental Biology | 4 CH |
| BIO 399 | Molecular Biology | 4 CH |
| CSD 213 | Nature and Development of Language | 3 CH |
| CSD 214 | Speech and Hearing Science | 3 CH |
| CSD 215 | A\&P of the Vocal Mechanism | 3 CH |
| CSD 500 | Neurology of Communication Disorders | 3 CH |
| CHEM 345 | Biochemistry I | 4 CH |
| CHEM 348 | Biochemistry II | 3 CH |
| CHEM 440 | Advanced Topics Biochemistry | 3 CH |
| ENGL 317 | Linguistics | 3 CH |
| NSCI 320 | Neuropharmacology | 3 CH |
| NSCI 330 | Neuroanatomy | 3 CH |
| NSCI 340 | Neuroendocrinology | 3 CH |
| NSCI 350 | Neuroscience Diseases and Disorders | 3 CH |
| NSCI 390 | Special Topics in Neuroscience | 3 CH |
| PHIL 347 | Philosophy of Mind | 3 CH |

PHYS 164 OR PHYS Introduction to Physics II
184

| REL 250 | Psychology of Religion | 3 CH |
| :--- | :--- | :--- |
| SOC 281 | Sociology of Aging | 3 CH |
| SOC 391 | Medical Sociology | 3 CH |

## Philosophy - Major Requirements

## Bachelor of Arts Degree

In order to major in philosophy, a student must complete at least 30 credit hours in philosophy (ten courses total):

## Six Required Courses:

PHIL 127 Introduction to Philosophy
PHIL 137 Critical Thinking
PHIL 147 Ancient Ideas: Greece, Rome, and the Middle Ages
Or
PHIL 157 Modern Ideas: Science, the Soul, and the Good Life
PHIL 227 Introduction to Chinese Philosophy
Or
PHIL 250 World Philosophy
PHIL 267 Ethics
One Applied Ethics Course: PHIL 277, 297 or 387 Business Ethics, Environmental Ethics, or Medical Ethics

## Two Elective Philosophy Courses at the 200 level or higher

## Two Cross-disciplinary Courses:

1) One related Humanities Course from the following list:

## Religion:

REL 140 (History of Christianity), 210 (Religion and the Sciences), 230 (Philosophy and Religion), 250 (Psychology of Religion), 275 (Krishna to Hindutva: Intro to Hinduism);

## English:

ENG 290 (Literature of World Mythology), 317 (Linguistics), 347 (Literary Theory and Criticism), 385 (Women in Literature);

## History:

HIST 241 (Women's History), 260 (East Asian History), 331 (19th Century Europe 1815-1914), 332
(20th Century Europe 1914-Present), 370 (Latin America: Culture, Conquest, Colonization), 371 (Latin
America: Reform and Revolution), 450 (Gender and Sexuality in 19th Century Europe)
2) One related Social Science Course from the following list:

## Communications:

COMM 345 (Communication Ethics);

## Political Science:

POSC 230 (Globalization), 236 (Public Policy), 300 (Intro to Legal Studies), 388 (The Death Penalty), 405 (Terrorism);

## Psychology and Neuroscience:

PSY 203 (Positive Psychology) PSY 223 (Social Psychology), 342 (Cognitive Psychology), 352
(Sensation \& Perception), 435 (Hist. \& Phil. of Psychology); NSCI 101 (Brain and Behavior)

## Sociology:

SOC 211 (Anthropology), 251 (Minorities), 321 (Deviance), 342 (Sociological Theory), 351 (Social Stratification), 421 (Gender and Society)

## Political Science

## Bachelor of Arts Degree

The major in political sciences shall successfully complete:
A total of 47 CH , with 41 CH in political science coursework and 6 CH in other areas (see below). Students are required to take each of the following courses (for a total of 26 CH of the 41 CH ).

| POSC 116 | American Government in Politics | 3 CH |
| :--- | :--- | :--- |
| POSC 146 | Introduction to Comparative Politics | 3 CH |
| POSC 156 | Introduction to International Relations | 3 CH |
| POSC 186 | Introduction to Legal Studies | 3 CH |
| POSC 236 | Public Policy | 3 CH |
| POSC 295 | Writing in Political Science | 3 CH |
| POSC 394 | Professional Development in Political Science | 1 CH |
| POSC 395 | Research Methods in Political Science | 3 CH |
| POSC 496 | Senior Seminar | 4 CH |

The additional 15 CH (of the 41 CH ) will be taken from political science electives; 9 CH of which must come from three different subfields of the following five. The remaining 6 CH can be fulfilled with coursework from the list below, an internship or an independent study within political science.

## American Politics

| POSC 225 | Gender and Politics | 3 CH |
| :--- | :--- | :--- |
| POSC 297 | Political Parties and Elections in the United States | 3 CH |
| POSC 315 | Political Psychology | 3 CH |
| POSC 335 | The American Presidency | 3 CH |

Public Policy and Public Administration

| POSC 226 | State and Local Politics | 3 CH |
| :--- | :--- | :--- |
| POSC 242 | American Foreign Policy | 3 CH |
| POSC 304 | Healthcare Policy | 3 CH |


| POSC 336 | Public Administration | 3 CH |
| :--- | :--- | :--- |
| POSC 388 | The Death Penalty | 3 CH |

Public Law

| POSC 436 | Constitutional Law | 3 CH |
| :--- | :--- | :--- |
| POSC 437 | First Amendment | 3 CH |
| POSC 438 | Criminal Due Process | 3 CH |
| POSC 439 | Criminal Law | 3 CH |
| POSC 445 | The Great American Trial | 3 CH |

International Relations

| POSC 312 | International Security | 3 CH |
| :--- | :--- | :--- |
| POSC 386 | Dictators and Totalitarianism | 3 CH |
| POSC 405 | Terrorism | 3 CH |
| POSC 410 | International Law and Organization | 3 CH |

## Comparative Politics

| POSC 230 | Globalization | 3 CH |
| :--- | :--- | :--- |
| POSC 310 | International Political Economy | 3 CH |
| POSC 327 | Politics of Developing Societies | 3 CH |
| POSC 347 | Politics of Industrial Societies | 3 CH |

The major in political science shall also successfully complete 6 CH in the following:
Two additional courses selected from any of the following programs: economics, English, history, psychology and sociology.

Recommended Study: Political science majors are strongly advised to complete at least one of the following courses by the end of the sophomore year:

| MATH 125 | Quantitative Reasoning | 3 CH |
| :--- | :--- | :--- |
| MATH 211 | Elementary Statistics | 4 CH |

Majors who intend to pursue graduate study in political science and related disciplines should consult with departmental faculty concerning preparation for graduate school.

## Psychology

## Bachelor of Arts Degree

The major in psychology consists of $46-48$ credit hours. These credit hours include 21 CH of foundation courses, 4 CH of capstone courses, 6 CH of "Breadth of Knowledge" electives hours, and 16 CH in one of three specialized tracks chosen by the student: (1) Counseling, (2) Cognitive Development, or (3) Social Psychology.

In order to successfully complete the psychology major, students must earn a grade of at least C-in all courses required for the major and maintain a 2.0 overall average for all psychology courses. Majors will be assigned an advisor within the psychology department (typically aligned with their chosen track), and work conscientiously to ensure appropriate course selections and timely progress toward fulfilling major and general college requirements while developing their passion in the field of psychology.

| Foundation Courses |  | $\mathbf{2 1} \mathbf{C H}$ total |
| :--- | :--- | :--- |
| PSY 105 | Orientation to Psychology | $\mathbf{2} \mathrm{CH}$ |
| PSY 150 | General Psychology | $\mathbf{3 C H}$ |
| NSCI 101 | Brain and Behavior | 4 CH |
| PSY 215 | Statistics for the Social Sciences | 3 CH |
| PSY 235 | Research Methods | 3 CH |
| PSY 255 | Lifespan Development | 3 CH |
| PSY 435 | History and Philosophy of Psychology | 3 CH |
|  | Professional Development in Psychology | $\mathbf{4 C H}$ total |
| Capstone Courses | Senior Seminar in Psychology | 2 CH |
| PSY 345 |  |  |
| PSY 445 |  |  |

## All majors select one of the following track specializations:

| Track 1: Counseling |  | $\mathbf{1 6 ~ C H}$ total |
| :--- | :--- | :--- |
| PSY 161 | Interpersonal Process | 1 CH |
| PSY 221 | Counseling Methods \& Personality Theory | 3 CH |
| PSY 241 | Abnormal Behavior | 3 CH |


| PSY 281 | Microcounseling Skills | 3 CH |
| :---: | :---: | :---: |
| PSY 381 | Research with Human Participants (Lab) | 4 CH |
| PSY 401/450/455/499 | Counseling Special Populations or Topics in Psychology or Internship in Psychology or Independent Research in Psychology | 3 CH |
| Track 2: Cognitive Development |  | 16 CH total |
| PSY 262 | Child Development | 3 CH |
| PSY 272 | Adulthood \& Aging | 3 CH |
| PSY 342/352 | Cognitive Psychology or Sensation and Perception | 3 CH |
| PSY 382 | Developmental Psychology Research (Lab) | 4 CH |
| PSY 450/455/499 | Topics in Psychology or Internship in Psychology or Independent Research in Psychology | 3 CH |
| Track 3: Social Psychology |  | 16 CH total |
| PSY 203 | Positive Psychology | 3 CH |
| PSY 223 | Social Psychology | 3 CH |
| PSY 263/363 | Health Psychology or Psychology of Eating | 3 CH |
| PSY 383 | Experimental Social Psychology (Lab) | 4 CH |
| PSY 450/455/499 | Topics in Psychology or Internship in Psychology or Independent Research in Psychology | 3 CH |

## Breadth of Knowledge Electives (2 courses) 6-8 CH total

(In addition to the courses below, students may also choose PSY electives from their unchosen track specialization)
BADM 100 Intro to Business
BADM 300 Intro Entrepreneur
BADM 324 Advertising
BADM 454 Marketing
BADM 484 Human Res Mgmt
BIO 117 Medical Terminology
CJS 101 Intro Criminal Justice
CHEM 220 Forensic Science
COMM 171 Intro to Comm
COMM 225 Interpersonal Comm
COMM 250 Small Group Comm
COMM 265 Comm \& Gender
CSD 111 Intro Comm Sci \& Dis
EDUC 111 Foundations of Ed
EDUC 112 Psych Found of Ed
ENG 260 Bus and Tech Writing
ENG 270 Advanced Comp
ENG 317 Linguistics
EXER 105 Intro Exercise Science
INDS 202 Wom \& Gend Stud
NSCI 202 Intro Neuroscience
NSCI 320 Neuropharmacology
NSCI 350 Neurosci Dis \& Disord
PHIL 137 Critical Thinking
PHIL 267 Ethics
PHIL 337 Social \& Political Phil
PHIL 347 Philosophy of Mind
PHIL 358 Phil of Language
PHIL 387 Medical Ethics
POSC 236 Public Policy
POSC 330 Health Care Policy
POSC 315 Political Psychology
REL 210 Religion and the Sci
REL 230 Phil of Religion
REL 250 Psych of Religion
SOC 121 Microsociology
SOC 191 Social Problems
SOC 321 Deviance
SOC 381 Medical Sociology
SOC 391 Sociology of Aging
SOC 401 Sociology of Family
SOC 421 Gender and Society

## Public Policy

## Bachelor of Arts Degree

For the first two years, students are expected to take foundational courses that will foster understanding of the political and economic realities contributing to the policy making process. Simultaneously, students will begin to take classes within their concentration to delve deeply and meaningfully into an issue of interest. In their junior year students will take a policy evaluation course, to help them understand the complexities of the analysis. This will be followed by a capstone experience in their senior year, where students will conduct applied policy research, most likely for a non-profit organization or a local government agency.

## Foundational courses (26 total credit hours)

Seven required courses ( 26 credit hours):

| POSC 116 | American Government | 3 CH |
| :--- | :--- | :--- |
| POSC 226 | State and Local Politics | 3 CH |
| POSC 236 | Public Policy | 3 CH |
| BADM 374 <br> or <br> POSC 336 | Principles of Management | 3 CH |
| ECON 211 <br> or <br> ECON 221 | Public Administration |  |
| POSC 295 | Principles of Macroeconomics | 3 CH |
| POSC 394 | Principles of Microeconomics in Political Science | 3 CH |
| POSC 395 | Research Methods in Political Science | 1 CH |
| POSC 495 | Public Policy Capstone | 3 CH |

## Concentrations (15 CH-29 CH)

## Criminal Justice (18CH)

Six required courses:

| CJS 101 | Criminal Justice Studies | 3 CH |
| :--- | :--- | :--- |
| SOC 121 <br> or <br> SOC 141 | Microsociology | 3 CH |
| CJS 221 <br> or <br> CJS 230 | Macrosociology |  |


| SOC 301 <br> or <br> CJS 305 | Juvenile Justice Studies | 3 CH |
| :--- | :--- | :--- |
| SOC 331 <br> or <br> SOC 342 | Victimology | 3 CH |
| CJS/POSC 438 <br> or <br> POSC 439 <br> or <br> POSC 445 | Cociological Theory | Criminal Due Process |


| Environmental Biology (28-29 CH) Four required courses (17 CH): |  |  |
| :---: | :---: | :---: |
| ENSC 111 | Introduction to Environmental Studies | 3 CH |
| GEOL 150 | Earth Systems | 4 CH |
| ENSC 225 | Geographical Information Systems | 3 CH |
| BIO 145 | Foundations of Biology | 4 CH |

Three of the following (11-12 CH):

| BIO 116 | Conservation Biology | 3 CH |
| :--- | :--- | :--- |
| BIO 262 | Animal Systematics | 4 CH |
| BIO 263 | Plant Systematics | 4 CH |
| BIO 212 | Microbiology | 4 CH |
| BIO 222 | Entomology | 4 CH |
| BIO 272 | Animal Behavior | 4 CH |
| BIO 273 | Toxicology | 4 CH |
| BIO 295 | General Parasitology | 4 CH |
| BIO 302 | Plant Physiology | 4 CH |
| BIO 394 | Aquatic Ecology | 4 CH |


| Environmental Studies (19-21 CH) <br> Two required courses (7 CH): |  |  |
| :---: | :---: | :---: |
| ENSC 111 | Intro to Environmental Studies | 3 CH |
| GEOL 150 | Earth Systems | 4 CH |
| Four of the following (12-14CH): |  |  |
| ENSC 200 | Environmental Law | 3 CH |
| ENSC 225 | Geographical Information Systems | 3 CH |
| ENSC 250 | Meteorology | 4 CH |
| ENSC 320 | Land Use Planning | 3 CH |
| GEOL 210 | Principles of Hydrogeology | 3 CH |
| GEOL 250 | Environmental Geology | 4 CH |

## Food and Agricultural Biology (19-20 CH)

Four required courses (16 CH):

| BIO 145 | Foundations of Biology | 4 CH |
| :--- | :--- | :--- |
| BIO 222 | Entomology | 4 CH |
| BIO 263 | Plant Systematics | 4 CH |
| BIO 392 | General Ecology | 4 CH |

One of the following (3-4 CH):

| BIO 110 | Ethnobotany | 4 CH |
| :--- | :--- | :--- |
| BIO 111 | Edible Botany | 4 CH |
| BIO 116 | Conservation Biology | 3 CH |
| BIO 212 | Microbiology | 4 CH |
| BIO 302 | Plant Physiology | 4 CH |
| BIO 322 | Genetics | 4 CH |

Health Systems (21-22 CH)
Seven required courses:

| BIO 145 <br> or <br> NSCI 101 | Foundations of Biology | 4 CH |
| :--- | :--- | :--- |
| BIO 280 <br> or <br> BIO 281 | The College Brain |  |
| CHEM 140 | Anatomy \& Physiology I | 4 CH |
| PSY 150 | General Chemistry I | 4 CH |
| NSCI 101 <br> or <br> NSCI 102 <br> or <br> PSY 255 | The College Brain | 3 CH |
| PHIL 267 <br> or <br> PHIL 387 <br> or <br> REL 200 | Introduction to Neuroscience | $3-4 \mathrm{CH}$ |

International Studies (18 CH)
Two required courses (6 CH):

| POSC 146 | Intro to Comparative Politics | 3 CH |
| :--- | :--- | :--- |
| POSC 156 | Intro to International Relations | 3 CH |

Four of the following (12 CH):

| POSC 230 | Globalization | 3 CH |
| :--- | :--- | :--- |
| POSC 310 | International Political Economy | 3 CH |
| POSC 312 | International Security | 3 CH |
| POSC 327 | Politics of Developing Societies | 3 CH |
| POSC 347 | Politics of Industrialized Societies | 3 CH |
| POSC 386 | Dictators and Totalitarianism | 3 CH |
| POSC 405 | Terrorism | 3 CH |

## Leadership and Management (15 CH)

| ACCT 113 | Principles of Accounting I | 3 CH |
| :--- | :--- | :--- |
| INDS 155 | Principles of Ethical Leadership | 3 CH |
| BADM 233 | Managerial Accounting | 3 CH |
| BADM 374 | Principles of Management | 3 CH |
| BADM 484 | Human Resource Management | 3 CH |

## Social Issues (18 CH)

Four required courses (12 CH):

| SOC 121 | Microsociology | 3 CH |
| :--- | :--- | :--- |
| SOC 141 | Macrosociology | 3 CH |
| SOC 211 | Anthropology | 3 CH |
| SOC 342 | Sociology Theory | 3 CH |

Two of the following (6 CH):

| SOC 251 | Minorities | 3 CH |
| :--- | :--- | :--- |
| SOC 351 | Social Stratification | 3 CH |
| SOC 401 | Sociology of the Family | 3 CH |
| SOC 421 | Gender and Society | 3 CH |
| SOC 425 | Urban Sociology | 3 CH |

Wildlife Biology (18 CH)
Two required courses (8 CH):

| BIO 145 | Foundations of Biology | 4 CH |
| :--- | :--- | :--- |
| BIO 392 | General Ecology | 4 CH |

One of the following (4CH)

| BIO 222 | Entomology | 4 CH |
| :--- | :--- | :--- |
| BIO 262 | Animal Systematics | 4 CH |
| BIO 263 | Plant Systematics | 4 CH |

Two of the following ( 6 CH ):

| BIO 116 | Conservation Biology | 3 CH |
| :--- | :--- | :--- |
| BIO 212 | Microbiology | 4 CH |
| BIO 272 | Animal Behavior | 4 CH |
| BIO 295 | General Parasitology | 4 CH |
| BIO 322 | Genetics | 4 CH |
| BIO 350 | Principles of Immunology | 3 CH |
| BIO 394 | Aquatic Ecology | 4 CH |

Women and Gender Studies (18 CH)
One required course (3 CH):
$\begin{array}{lll}\text { INDS } 202 & \begin{array}{l}\text { Introduction to Women's and Gender Studies: } \\ \text { Gender, Culture and Sexuality }\end{array} & 3 \mathrm{CH}\end{array}$

Five of the following ( 15 CH ):

| ART 214 | Women in Art | 3 CH |
| :--- | :--- | :--- |
| COMM 265 | Communication and Gender | 3 CH |
| ENG 385 | Women in Literature | 3 CH |
| HIST 241 | European Women's History | 3 CH |
| HIST 450 | Gender and Sexuality in 19th Century Europe | 3 CH |
| INDS 432 | Special Topics in Gender Studies | 3 CH |
| POSC 225 | Gender and Politics | 3 CH |
| PSY 450 | Special Topics: Sex in the 21st Century | 3 CH |


| REL 220 | Women in the Jewish and Christian Traditions | 3 CH |
| :--- | :--- | :--- |
| REL 225 | Selected Topics: Sex, Sexuality, and Religion | 3 CH |
| SEMS 400 | 7 Deadly Sins and Global Issues | 3 CH |
| SEMS 400 | Women's Issues and Global Human Rights | 3 CH |
| SOC 261 | American Women's Experience: A Multicultural Perspective | 3 CH |
| SOC 271 | Sociology of Sport | 3 CH |
| SOC 401 | Sociology of the Family | 3 CH |
| SOC 421 | Gender and Society | 3 CH |
| SOC 431 | Disney and Gender | 3 CH |

## Religion

## Bachelor of Arts Degree

Upon graduation with a religion major from Thiel College, a student will demonstrate:

- familiarity with the biblical writings of the Jewish and Christian traditions and with scholarly approaches to interpreting these and other religious texts;
- the ability to interpret the nature of religious experience, Christian and otherwise, with a level of sophistication appropriate to an undergraduate scholar of religion;
- knowledge of the key persons, works, and movements from the history of Christianity; and
- a mature understanding of the interrelatedness of religion and culture


## Major Requirements

Students majoring in religion must fulfill the following minimum requirements.

Thirty-one credit hours in religion including:

| REL 110 | Introduction to Religion | 3 CH |
| :--- | :--- | :--- |
| REL 120 | Interpreting the Jewish and Christian Scriptures | 3 CH |
| REL 190 | World Religions | 3 CH |

The following two courses, ordinarily taken in the senior year:

| REL 330 | Readings in Religious Studies | 2 CH |
| :--- | :--- | :--- |
| REL 340 | Readings in Theology | 2 CH |

A maximum of three credit hours of:
REL 380 Cooperative Education
or
REL 390
Independent Study may be applied toward the major.

One of the following, preferably in the first year:
PHIL 127
Introduction to Philosophy
3 CH

## Sociology

## Bachelor of Arts Degree

The major requires a minimum of 37 credit hours and must include the below courses:

| SOC 121 | Microsociology | 3 CH |
| :--- | :--- | :--- |
| SOC 141 | Macrosociology | 3 CH |
| SOC 215 | Statistics for the Social Sciences | 3 CH |
| SOC 251 | Minorities | 3 CH |
| SOC 341 | Social Research Methods | 3 CH |
| SOC 342 | Sociological Theory | 3 CH |
| SOC 351 | Social Stratification | 3 CH |
| SOC/CJS 371 | Professional Seminar | 1 CH |
| SOC 440 | Capstone in Sociology | 3 CH |

In addition, three elective sociology courses (numbered 261 through 491, excluding SOC 455), and one other sociology course (any course number) are required.

Note: Students electing to double major in sociology and criminal justice studies may not use the same elective courses to satisfy the elective requirement for both majors. SOC 215: Statistics for the Social Sciences is accepted as a student's second math class towards Thiel core curriculum graduation requirements. SOC 251: Minorities is required for the sociology major and may be used also as an elective in the criminal justice studies major if a student is a double major in sociology and criminal justice studies.

A declaration of a major in sociology must be filed no later than the first semester of the junior year.

## Theology And Youth Ministry

## Bachelor of Arts Degree

Upon graduation with a Theology and Youth Ministry major from Thiel College, a student will demonstrate:

- familiarity with the biblical writings of the Jewish and Christian traditions and with scholarly approaches to interpreting these and other religious texts;
- the ability to interpret the nature of religious experience, Christian and otherwise, with a level of sophistication appropriate to an undergraduate scholar of religion;
- knowledge of the key persons, works, and movements from the history of Christianity; and
- a mature understanding of the interrelatedness of religion and culture.


## Major Requirements

Students majoring in theology and youth ministry will fulfill the following requirements:

| REL 110 | Introduction to Religion | 3 CH |
| :--- | :--- | :--- |
| Choose <br> REL 120 <br> REL 121 <br> REL 122 <br> REL 123 | Any 1 of the following 4: <br> Interpreting the Jewish and Christian Scriptures <br> Intro to the Old Testament/Hebrew Bible <br> Introduction to the New Testament <br> Intro to Christianity | 3 CH |
| REL 130 | Introduction to Ministry |  |
| REL 190 | World Religions | 3 CH |
| REL 290 | Luther and His Legacy | 3 CH |
| REL 340 | Readings in Theology | 3 CH |
| REL 370 | Meaning Making | 2 CH |

Any two additional Religion courses.

[^0]
## Dietrich Honors Institute

## DHI Graduation Requirements

DHI students complete a four-year, sequenced, Core curriculum taken in place of the general College Core. To graduate as a Dietrich Honors Institute Scholar students must complete the following:

## Foreign Language Competency

Six credits of introductory level college coursework in the same language or three credits of intermediate level language. Exemption possible through the Department of Language examination.

## Mathematics Competency

Earn a grade of C- or higher in Math 142 (or higher) or PSY 215/SOC 233, Statistics for the Social Sciences.

## Scientific Reasoning Competency

Successfully complete one natural or physical science laboratory course (as determined in the general College Core).

## DHI Core Courses

Pass all of the following courses:

| HONS 109 | Becoming Human: Love, Power, Justice | 3 CH |
| :--- | :--- | :--- |
| HONS 113 | Communicating Effectively: Grammar, Dialectic, Rhetoric | 3 CH |
| HONS 114 | Creating Culture: Ancient, Medieval, Modern | 3 CH |
| HONS 128 | Interpreting Scriptures: Jewish, Christian, Islamic | 3 CH |
| HONS 126 | Composing Contextually: Enlightenment, Romanticism, <br> Postmodernism | 3 CH |
| HONS 250 | Global Perspectives | 3 CH |
| HONS 330 | Creative Practices: Art, Research, and Problem-Solving | 3 CH |
| HONS 340 | Contributing Culturally: Researching, Creating, Presenting | 3 CH |

## DHI Elective Course

The DHI Elective is meant to encourage students to follow their curiosity and challenge themselves. The DHI Elective must be a 3 - or 4 -credit course

Any level ART course.
Classes that are required to satisfy the major, but which are not in the major department, qualify for the DHI Elective. (E.g., PHIL 387 Medical Ethics satisfies requirements for a B.S. in Neuroscience; since it is outside the major department as a non-Neuroscience course, it can count as a DHI Elective.) The DHI Elective can be taken in satisfaction of requirements for a minor. Students may petition the DHI Director for exemptions to these guidelines. Students must submit their DHI Elective selection to the DHI Office via the electronic DHI Elective Form.

## DHI Thesis

All Dietrich students must satisfactorily complete and present an approved honors thesis.

## Good Standing in the DHI

To remain in good standing in the DHI, students must

- Maintain a 3.0 GPA, both cumulatively and semester-by-semester;
- Abide by the Thiel Honor Code and Academic Integrity policies as outlined in the Thiel College Student Handbook;
- Make timely progress in DHI coursework;
- Be good ambassadors of Thiel College and the DHI, especially while participating in special events and trips.

Failure to meet these requirements may result in probationary status or dismissal from the DHI. Further details about DHI programs and policies are found in the DHI Student Handbook (click here).

## Core Requirements

The College offers two parallel core pathways to fulfill the All-College Learning Goals: The general core curriculum and the Dietrich Honors Institute (DHI) core.

## Bachelor of Arts and Bachelor of Science Degree

## Credit Hours

- 124 credit hours of successfully completed course work shall be required for the Bachelor of Arts degree.
- The 124 credit hours shall be distributed approximately as follows:
- 25 to 30 percent for the Core Curriculum Requirement
- 30 to 45 percent for the major
- 25 to 45 percent for electives


## 1. Literacy Series

- Composition (3 CH)
- Successfully complete ENG 101: College Writing (C- or higher required)
- Presentation (3 CH)
- Successfully complete INDS 101: Introduction to Presentational Literacy (C- or higher required)
- Quantitative and Scientific Reasoning (10-12 CH)
- Quantitative Reasoning
- B.A. Programs: Students must earn a grade of C- or higher in MATH 125, MATH211, or higher.
- B.S. Programs: Students must earn a grade of C- or higher in MATH 142 or any calculus course.
- Scientific Reasoning
- Successfully complete one natural or physical science laboratory course.
- Additional Quantitative / Scientific Reasoning Course
- Successfully complete one additional course satisfying either Quantitative or Scientific Reasoning: computer science, mathematics, natural or physical science course-biology, chemistry, computer science, environmental science, geology, neuroscience, mathematics, or physics. PSY/SOC 233, Statistics for Social Sciences, will also fulfill this requirement. Courses with the CIS and IS prefix will not satisfy this requirement.
- Creative and Humanistic (12 CH)
- Creative (3 CH)
- Successfully complete a course (or earn at least 3 CH ) in art, music or theatre, excluding THAR 101: Theatre Practicum.
- Humanistic (6 CH)
- Students must successfully complete REL $120,121,122$ or 123 and one additional course in English, history, languages, philosophy or religion.
- Additional Creative and Humanistic Course (3 CH)
- Students must successfully complete an additional course satisfying either Creative or Humanistic: art, music, theatre, history, English, philosophy, religion or a Spanish culture course ( 250 for example). This course must be outside the student's major (i.e. cannot be a course with the same department prefix as the major).
- Socio-Political (3-4 CH)
- Successfully complete one course in economics, geography, political science, psychology, sociology or criminal justice studies. Courses with the prefix ACCT, BADM, EDUC, ECE, SPED, and SECED will not satisfy this requirement.
- Foreign Language (0-6 CH)
- The foreign language requirement may be satisfied in one of the following ways:
- Earn a final grade of C - or better in two years of the same foreign language in high school;
- Take the placement test and test out of a class or the requirement altogether;
- Complete (C- or better) two semesters of a foreign language at the introductory level;
- Complete (C- or better) one semester of a foreign language at the intermediate level.


## 2. Seminar Series ( 9 CH )

The Seminar Series at Thiel College is designed to introduce students to engaged, participatory learning. This series of three courses is intended to be the centerpiece of the core curriculum, emphasizing studentcentered learning and investigation of big ideas, the interconnected nature of the disciplines, as well as creative and team-based problem solving.

- SEMS 110: Introduction to Seminar Series (3 CH)
- This seminar, taken during the student's first year at Thiel College, is the first seminar within the core series. It is designed to introduce students to seminar style learning in a disciplinary context. SEMS 110 must be completed with a C- or higher to meet graduation requirements.
- SEMS 250: World Cultures (3 CH)
- This seminar is to be taken during the student's second, third, or fourth semester. By the end of this seminar, students will have the resources to develop into mature, informed, critically thinking citizens through the exploration of similarities and differences between cultures. This seminar will be cross-listed with pre- approved courses that are discipline-specific. Cannot be used to concurrently satisfy another core requirement in the Literacy Series. (P: SEMS 110)
- SEMS 400: Global Issues (3 CH)
- This is the final seminar in the core seminar series. The topic will be determined by the instructor and the consulting faculty. The purpose of the course is for the class to give an indepth analysis of an issue of current global importance. Students will be expected to bring their own experience from the previous seminars as well as their expertise from their own major to bear on the issue at hand. Cannot be used to concurrently satisfy another core
requirement in the Literacy Series. (Recommended P: junior or senior standing and SEMS 110 and 250)


## 3. Concern for Physical Well-Being (2-3 CH)

Thiel College hopes to engage our students in activities that build their appreciation for and participation in healthy activity. These courses are designed to promote an intellectual understanding of physical well-being and development to provide the opportunity for students to apply theory in a variety of structured options.

Students will successfully complete two or three credit hours of theory courses such as AH 105 Taking Care of your Health, AH 115 Food Patterns and Health, AH 125 Nutrition, HPED 198 Slimnastics, or HPED 199 Fitness for Life and Wellness.

## Chemistry

## Bachelor of Science Degree

## Major Requirements

The major in chemistry consists of all the courses in Sections A and C, and one course from Section B, and one from Section D:

| Section A |  |
| :--- | :--- |
| CHEM 140 | General Chemistry I |
| CHEM 160 | General Chemistry II |
| CHEM 200 | Organic Chemistry I |
| CHEM 210 | Organic Chemistry II |
| CHEM 240 | Quantitative Analysis |
| CHEM 315 | Physical Chemistry-Fundamentals |
| CHEM 345 | Biochemistry I |
| CHEM 370 | Instrumental Analysis |
| CHEM 405 | Canior Seminar |
| CHEM 406 | Independent Study |
| CHEM 495 | Physical Chemistry-Applications |
| Section B | Inorganic Chemistry |
| CHEM 325 |  |
| CHEM 390 | Advanced Topics in Inorganic Chemistry |
| Section C | Calculus I |
| MATH 181 | Calculus II |
| MATH 182 | Introductory Physics I |
| PHYS 174 | PHYS 184 |


| CHEM 415 | Biological Inorganic Chemistry |
| :--- | :--- |
| CHEM 420 | Advanced Topics in Physical Chemistry |
| CHEM 430 | Advanced Topics in Environmental Chemistry |
| CHEM 440 | Advanced Topics in Biochemistry |
| CHEM 450 | Advanced Topics in Organic Chemistry |
| CHEM 465 | Advanced Topics in Analytical Chemistry |

Students planning to be professional chemists are encouraged to take more than the minimum course work in physics and mathematics.

Suggested first year schedule for all chemistry majors (includes Pre-Medicine, Pre-Dentistry, Pre-Pharmacy, Pre-Veterinary, B.S. in Biochemistry, Chemistry, and Environmental Chemistry):

First Year, Fall

| CHEM 140 | General Chemistry I | 4 CH |
| :--- | :--- | :--- |
| MATH 181 | Calculus I | 4 CH |
| ENG 101 | College Writing | 3 CH |
| SEMS 110 | Introduction to Seminar | 3 CH |
|  | Electives | $1-4 \mathrm{CH}$ |

TOTAL 15-18 CH
First Year, Spring

| CHEM 160 | General Chemistry II | 4 CH |
| :--- | :--- | :--- |
| MATH 182 | Calculus II | 4 CH |
| INDS 101 | Presentational Literacy | 3 CH |
|  | Core Elective | 3 CH |
|  | Elective | $0-4 \mathrm{CH}$ |

TOTAL 14-18 CH

Students needing more preparation in mathematics are advised to take MATH 107 College Algebra in the fall;CHEM 140 and MATH 142 Precalculus in the spring; and CHEM 160 and MATH 181 in the fall semester of the second year.

Students with exceptionally strong math/science backgrounds should consult with the chemistry department before registering.

## Conservation Biology

## Bachelor of Science Degree

A student who graduates from Thiel College with a major in conservation biology will:

- understand biological principles and their implications including: Evolution; Structure and Function; Information flow, exchange, and storage; Pathways and transformation of energy and matter; and Biological Systems.
- study, analyze experimentally and interpret biological problems including: a. modeling and simulation b. quantitative reasoning c. generation of lab reports that reflect methodology.
- understand the interdisciplinary nature of conservation strategies and societal implications.
- be able to effectively communicate about biological matters in both oral and written form.
- be prepared for discipline-related or admission into a discipline-related graduate or professional program.
I. Foundational Courses

| BIO 145 | Foundations of Biology | 4 CH |
| :--- | :--- | :--- |
| BIO 116 | Conservation Biology | 4 CH |
| BIO 263 | Plant Systematics | 4 CH |

And one of the following two courses:

| BIO 262 | Animal Systematics | 4 CH |
| :--- | :--- | :--- |
| BIO 272 | Entomology | 4 CH |

II. Breadth in the Discipline

Must take all 4

| BIO 290 | Cell Biology | 4 CH |
| :--- | :--- | :--- |
| BIO 322 | Genetics | 4 CH |
| BIO 342 | Biostatistics and Research Methods | 4 CH |
| BIO 392 | General Ecology | 4 CH |

And two courses from the following:

| BIO 212 | Microbiology | 4 CH |
| :--- | :--- | :--- |
| BIO 222 | Entomology | 4 CH |
| BIO 262 | Animal Systematics | 4 CH |
| BIO 272 | Animal Behavior | 4 CH |


| BIO 273 | Toxicology | 4 CH |
| :--- | :--- | :--- |
| BIO 302 | Plant Physiology | 4 CH |
| BIO 394 | Aquatic Ecology | 4 CH |

Note: Courses applied as foundational courses may not also be applied as breadth in the discipline courses.

## III. Senior Capstone Experience in Biology

A completed research project under the supervision of a biology department faculty member is required of the student majoring in biology. The project is culminated with a formal scientific research paper and a formal oral presentation.

Students must take both of these courses.

| BIO 395 | Junior Research Seminar | 1 CH |
| :--- | :--- | :--- |
| BIO 462 | Senior Seminar | 2 CH |

And one of the following two courses:

| BIO 452 | Advanced Biology | 2 CH |
| :--- | :--- | :--- |
| BIO 482 | Independent Study | 2 CH |

IV. Specified I.R. courses, related sciences (because of the interdisciplinary nature of the major)
MATH $107 \quad$ College Algebra (minimum requirement) 3 CH

And one of the following three pairings:

| CHEM 140 | General Chemistry I | 4 CH |
| :--- | :--- | :--- |
| CHEM 160 | General Chemistry II | 4 CH |

OR

| PHYS 154 | Physics I (non-calc based) | 4 CH |
| :--- | :--- | :--- |
| PHYS 164 | Physics II (non-calc based) | 4 CH |

OR

| PHYS 174 | Physics I (calculus based) | 4 CH |
| :--- | :--- | :--- |
| PHYS 184 | Physics II (calculus based) | 4 CH |

And one of the following
POSC $116 \quad$ American Government and Politics 3 CH

| POSC 236 | Public Policy | 3 CH |
| :--- | :--- | :--- |

And one of the following

| ECON 211 | Macroeconomics | 3 CH |
| :--- | :--- | :--- |
| ECON 221 | Microeconomics | 3 CH |
| And one of the following |  |  |
| SOC 141 | Macrosociology | 3 CH |
| SOC 211 | Anthropology | 3 CH |
| And one of the following | 3 CH |  |
| REL 200 | Contemporary Ethical Issues | 3 CH |
| PHIL 267 | Ethics | 3 CH |
| PHIL 297 | Environmental Ethics |  |
| And a Foreign language, especially Spanish (I.R. I) |  |  |
| Note: These courses can be applied to the CORE. |  |  |

## Suggested schedule of science courses for conservation biology majors (B.S.)

|  | Fall | Spring |
| :--- | :--- | :--- |
| 1 | BIO 145: Foundations of <br> Biology <br> CHEM 140: General <br> Chemistry I <br> MATH 142: Precalculus | BIO 262 Animal Systematics or BIO <br> Elective <br> CHEM 160 General Chemistry II <br> BIO 116 Conservation Biology |
| 2 | BIO 222 Entomology <br> or <br> BIO 263 Plant Systematics | BIO 262 Animal Systematics or BIO <br> Elective <br> and <br> BIO 290 Cell Biology |
| 3 | BIO 392 Ecology or BIO <br> Elective <br> and <br> BIO 322 Genetics | BIO 342 Biostatistics and Research <br> Methods <br> BIO 395 Junior Research Seminar |
|  | BIO 462 Senior Seminar | BIO 452 Advanced Biology <br> or <br> BIO 482 Independent Study |
| 4 |  |  |

## Exercise Science

## Bachelor of Science Degree

The biology department of Thiel College offers a Bachelor of Science degree in Exercise Science. Through an interdisciplinary and comprehensive approach, students will gain knowledge in scientific foundation of human movement, physical activity, and exercise sport and performance. This curriculum will prepare students for a wide variety of graduate and professional programs, or for diverse careers in health - related professions.

A student who graduates from Thiel College with a major in Exercise Science will:

- Understand exercise science principles and their implications/applications.
- Experimentally analyze, critique, and interpret problems in the exercise science field.
- Effectively communicate scientific concepts in both written and oral forms.
- Be effectively prepared for discipline-related employment, or admission into a graduate/professional program.


## Exercise Science Requirements

Must take all of the following:

| 1. EXER 105 | Intro to Exercise Science | 3 CH |
| :--- | :--- | :--- |
| 2. EXER 205 | Facility Management | 3 CH |
| 3. EXER 305 | Exercise Testing/Prescription (Lab) | 4 CH |
| 4. EXER 310 | Kinesiology | 4 CH |
| 5. EXER 315 | Exercise Physiology (Lab) | 4 CH |
| 6. EXER 405 | Strength and Conditioning (Lab) | 4 CH |
| 7. EXER 410 | Exercise Science Senior Seminar | 2 CH |

8. And one of the following:

| EXER 490 | Ind Study in Exercise Research | 3 CH |
| :--- | :--- | :--- |
| EXER 495 | Internship | 3 CH |

Related Math and Science Courses
Must take all of the following:

| 1. BIO 117 | Medical Terminology | 3 CH |
| :--- | :--- | :--- |
| 2. BIO 280 | Human Anatomy and Physiology I | 4 CH |


| 3. BIO 281 | Human Physiology and Physiology II | 4 CH |
| :--- | :--- | :--- |
| 4. MATH 211 | Elementary Statistics | 4 CH |
| 5. AH 125 | Nutrition | 2 CH |

Suggested schedule of science courses for exercise science majors (B.S.)

|  | Fall | Spring |
| :--- | :--- | :--- |
| 1 | EXER 105: Introduction to Exercise <br> Science <br> BIO 145: Foundations of Biology | EXER 205: Facility Management <br> MATH 107: College Algebra |
| 2 | BIO 280: Human Anatomy and <br> Physiology I <br> MATH 211: Elementary Statistics | BIO 117: Medical Terminology <br> BI 281: Human Anatomy <br> and Physiology II |
| 3 | EXER 310: Kinesiology EXER 305: Exercise Testing and <br> AH 125: Nutrition  | Prescription <br> EXER 315: Exercise Physiology |
| 4 | EXER 490: Independent Study in <br> Exercise <br> Research OR EXER 495: Internship in <br> Exercise | EXER 410: Exercise Science Senior <br> Science <br> EXER 405: Strength and Conditioning |

## Nursing

## Bachelor of Science in Nursing (B.S.N.) Degree

## Major Requirements

Pre-Nursing Courses: Completed in the first three semesters in addition to enrolling in College Core requirements. Students are also encouraged to participate in the Health Professions Institute course sequence (HPI 101, HPI 202, and HPI 303).

| Pre-Nursing Courses: |  |  |
| :--- | :--- | :--- |
| BIO 145 | Foundations of Biology | 4 CH |
| BIO 280 | Anatomy \& Physiology I | 4 CH |
| PSY 150 | General Psychology | 3 CH |
| BIO 281 | Anatomy \& Physiology II | 4 CH |
| PSY 255 | Lifespan Development | 3 CH |
| AH 125 | Nutrition | 3 CH |
| BIO 205 | Microbiology for Nurses | 4 CH |
| CHEM 130 | Chemistry for Health Sciences | 4 CH |
| MATH 211 | Elementary Statistics | 4 CH |

Note: Students must complete all of the required pre-nursing courses by the end of the third semester (second Fall semester) with a grade of $C$ - or better and a 3.0 minimum G.P.A.. Only pre-nursing courses calculated in the prenursing G.P.A. that are considered in the official admission into the Sharon Regional Health System School of Nursing RN program. Upon completion of the third semester at Thiel College, students who have maintained the academic expectations (including successful passing of the Test of Essential Academic Skills - TEAS) will be formally admitted into the Sharon Regional Health System School of Nursing.

Nursing Courses: Completed at both Thiel College and at Sharon Regional Health System, School of Nursing (SRHS SON):

Thiel College:

| SPAN 523 | Medical Spanish | 3 CH |
| :--- | :--- | :--- |
| NUR 301 | Nursing Leadership and Management | 3 CH |
| NUR 304 | Advanced Health Assessment | 3 CH |
| NUR 402 | Healthcare Informatics | 3 CH |


| NUR 404 | Healthcare Policy | 3 CH |
| :--- | :--- | :--- |
| NUR 406 | Vulnerable Populations | 3 CH |
| NUR 409 | Research \& Evidence-Based Practice | 3 CH |
| NUR 412 | Community \& Public Health Nursing | 3 CH |
| SRHS SON: |  |  |


| Introduction to Healthcare | 1 CH |
| :--- | :--- |
| Fundamentals | 4 CH |
| Health Assessment | 3 CH |
| Core Concepts of Pharmacology Introduction | 1 CH |
| Medical-Surgical Nursing I | 7 CH |
| Medical-Surgical Nursing II | 7 CH |
| Core Concepts of Pharmacology I | 1 CH |
| Core Concepts of Pharmacology II | 1 CH |
| Core Concepts of Pharmacology Specialty | 1 CH |
| Specialty Nursing | 7 CH |
| Practicum | 3 CH |

Note: Students will sit for the NCLEX-RN after their fourth year, spring semester.

## Actuarial Studies

## Bachelor of Science Degree

The continuing growth of insurance and governmental agencies has maintained a constant demand for qualified actuaries. The Actuarial Studies Program aims to provide students with the mathematical training and business background needed to enter the actuarial profession directly or to prepare for advanced study in actuarial science at a university.

A student who graduates from Thiel College with a major in Actuarial Studies will be able to:

- Use general probability theory to solve problems in the field of financial risk management.
- Apply interest theory to calculate the values of and payments for various financial instruments.
- Use derivatives to create and evaluate financial positions, especially those involving insurance.
- Use statistical methods to make decisions and analyze situations.
- Communicate statistical and financial information effectively, in both oral and written formats.


## Major Requirements

In addition to taking one of the first two SOA exams (P or FM), a student majoring in Actuarial Studies must successfully complete the following courses. All courses applied to the major must be completed with a grade of Cor higher.

| ACCT 113 | Principles of Accounting I | 3 CH |
| :--- | :--- | :--- |
| ACCT 123 | Principles of Accounting II | 3 CH |
| Choose one of the following two courses: |  |  |
| BADM 233 | Managerial Accounting | 3 CH |
| ACCT 313 | Cost Accounting | 3 CH |
| Choose one of the following two courses: |  |  |
| ENG 270 | Advanced Composition | 3 CH |
| ENG 260 | Business and Technical Writing | 3 CH |
|  |  | 3 CH |
| BADM 344 | Finance | 1 CH |
| CIS 112 | Spreadsheet Applications | 1 CH |
| CIS 113 | Data Management Applications |  |


| CSCI 159 | Introduction to Programming | 4 CH |
| :--- | :--- | :--- |
| MATH 181 | Calculus I | 4 CH |
| MATH 182 | Calculus II | 4 CH |
| MATH 281 | Calculus III | 4 CH |
| MATH 291 | Linear Algebra | 4 CH |
| MATH 341 | Theory of Interest and Life Annuities | 4 CH |
| MATH 342 | Derivatives Markets | 3 CH |
| MATH 451 | Probability | 4 CH |
| MATH 461 | Statistics | 4 CH |
| ECON 211 | Principles of Macroeconomics | 3 CH |
| ECON 221 | Principles of Microeconomics | 3 CH |

## Biochemistry

## Bachelor of Science Degree

In the interdisciplinary science of biochemistry, the structure, composition and chemical reactions of substances in living systems are studied. The biochemistry major is valuable for students applying to medical, dental, veterinary, pharmacy or graduate school by providing a multidisciplinary foundation in chemistry, biology and physics. This major also prepares students for work in pharmaceutical, agricultural chemical, biotechnology and consumer products industries.

A student who graduates from Thiel College with a Bachelor of Science degree in biochemistry will:

- demonstrate knowledge of the structures and functions of biological molecules and explain molecular pathways associated with cellular metabolism of the major classes of biochemical compounds;
- possess scientific literacy and problem solving skills associated with the main branches of chemistry: analytical, biochemistry, inorganic, organic and physical;
- know how to conduct an internal or external research project;
- be prepared for chemistry-related employment in the medical, pharmaceutical, biotechnology or related fields or biochemistry-related graduate or professional programs including medical, dental or veterinary schools.
- Demonstrate the ability to communicate effectively in oral and written form.


## Major Requirements

The B.S. degree in biochemistry requires all of the courses in Sections A and C, one course in Section B, and two courses in Section D. It is expected that the course from Section B will have a biochemistry focus.

## Section A

CHEM 140 General Chemistry I
CHEM 160 General Chemistry II
CHEM 200 Organic Chemistry I
CHEM 210 Organic Chemistry II
CHEM 240 Quantitative Analysis
CHEM 315 Physical Chemistry - Fundamentals
CHEM 345 Biochemistry I
CHEM 348 Biochemistry II
CHEM 405 Junior Seminar
CHEM 406 Capstone
CHEM 495 Independent Study

## Section B

CHEM 3XX Biophysical Chemistry
CHEM 3XX Biological Analytical Chemistry
CHEM 415 Biological Inorganic Chemistry
CHEM 440 Advanced Topics in Biochemistry

## Section C

MATH 181 Calculus I
MATH 182 Calculus II
PHYS 174 Introductory Physics I (calculus-based)
PHYS 184 Introductory Physics II (calculus-based)
BIO 145 Foundations of Biology

## Section D

BIO 290 Cell Biology
BIO 294 Human Physiology
BIO 322 Genetics
BIO 343 Developmental Biology
BIO 284 Human Anatomy
or
BIO 282 Comparative Chordate Anatomy

## Biology

## Bachelor of Science Degree

A student who graduates from Thiel College with a major in biology will:

- understand biological principles and their implications, including: evolution; structure and function; information flow, exchange, and storage; pathways and transformation of energy and matter; and biological systems.
- study, analyze experimentally and interpret biological problems, including: a. modeling and simulation b. quantitative reasoning c . generation of lab reports that reflect methodology.
- be able to effectively communicate about biological matters in both oral and written form.
- be prepared for discipline-related employment (including secondary education in Pennsylvania) or admission into a discipline-related graduate or professional program.
I. Foundational Courses
BIO $145 \quad 4 \mathrm{CH} \quad$ Foundations of Biology

And one of the following four systematics courses:

| BIO 262 | 4 CH | Animal Systematics |
| :--- | :--- | :--- |
| BIO 222 | 4 CH | Entomology |
| BIO 263 | 4 CH | Plant Systematics |
| BIO 212 | 4 CH | Microbiology |

## II. Breadth in the Discipline of Biology

Students must take all five courses.

| BIO 290 | 4 CH | Cell Biology: A molecular approach |
| :--- | :--- | :--- |
| BIO 322 | 4 CH | Genetics |
| BIO 342 | 4 CH | Biostatistics and Research Methods |
| BIO 392 | 4 CH | General Ecology |

One elective from any four-credit, 200 or 300 level BIO lab course. Students may also choose from NCSI 202, 209 or 315.

And one of the following two courses:

| BIO 350 | 3 CH | Principles of Immunology |
| :--- | :--- | :--- |
| BIO 399 | 4 CH | Molecular Biology |

Note: Courses applied as foundational courses may not also be applied as breadth in the discipline courses.

## III. Senior Capstone Experience in Biology

A completed research project under the supervision of a biology department faculty member is required of the student majoring in biology. The project is culminated with a formal scientific research paper and a formal oral presentation. See the biology chair for specific requirements of the research project.
Students must take both of these courses.

| BIO 395 | 1 CH | Junior Research Seminar |
| :--- | :--- | :--- |
| BIO 462 | 2 CH | Senior Seminar |

And one of the following two courses:

| BIO 452 | 2 CH | Advanced Biology |
| :--- | :--- | :--- |
| BIO 482 | 2 CH | Independent Study |

## IV. Related Math and Science Courses

All of the following

| MATH 181 | 4 CH | Calculus I |
| :--- | :--- | :--- |
| CHEM 140 | 4 CH | General Chemistry I |
| CHEM 160 | 4 CH | General Chemistry II |
| CHEM 200 | 4 CH | Organic Chemistry I |
| CHEM 210 | 4 CH | Organic Chemistry II |
| CHEM 345 | 4 CH | Biochemistry I |

## Suggested schedule of science courses for biology majors (B.S.)

|  | Fall | Spring |
| :--- | :--- | :--- |
| 1 | BIO 145: Foundations of Biology <br> CHEM 140: General Chemistry I <br> MATH 142: Precalculus (minimum) | BIO 290 Cell Biology OR Systematics <br> Course <br> CHEM 160 General Chemistry II <br> MATH Calculus I |
| 2 |  | BIO 322 Genetics OR BIO Elective <br> AND <br> CHEM 200 Organic Chemistry I |

## Communication Sciences and Disorders

## Bachelor of Science Degree

The CSD major requires 84 credit hours consisting of 39 hours of CSD courses and 45 hours of interdisciplinary requirements.

All courses taken for the major in CSD must be passed with a grade of C - or better. All courses with a CSD and BIO prefix, after matriculation, are to be completed at Thiel College.

## Suggested Sequence of Major CSD Requirements

## Fall Semester

CSD 111 Introduction to Communication Sciences \& Disorders (freshman year)
CSD 213 Nature and Development of Language (sophomore year)
CSD 218 Sign Language I (sophomore year)
CSD 220 Intro to Audiology \& Auditory Disorders (sophomore year)
CSD 250 Intro to Communication Disorders in Children (sophomore year)
CSD 415 Intro to Clinical Observation \& Methodology (junior or senior year)
CSD 450 Current Topics in Communication Sciences and Disorders (senior year)

## Spring Semester

CSD 191 Clinical Phonetics (freshman year)
CSD 215 Anatomy and Physiology of the Vocal Mechanism (sophomore year)
CSD 314 Speech and Hearing Science (junior year)
CSD 370 Introduction to Communication Disorders in Adults (junior year)
CSD 395 Aural Rehabilitation (junior year)
CSD 420 Clinical Practicum (junior or senior year)

- CSD majors may elect to take CSD 318 Sign Language II as a continuation of CSD 218 Sign Language I.
- Seniors may elect to take CSD 460 Integrational Internship in CSD and up to 6 credits of CSD 425 Advanced Clinical Practicum as a continuation of their clinical experience.


## Interdisciplinary Requirements

Students seeking a B.S. are required to take 45 credit hours of interdisciplinary requirements:

- NSCI 101 Brain and Behavior 4 CH
- CHEM 100 Chemtech or PHYS 154 Into to Physics 4 CH
- MATH 211 Elementary Statistics 4 CH
- NSCI 315 Neuroanatomy or NSCI 350 Neuroscience Disorders/Diseases 3 CH
- BIO 117 Medical Terminology 3 CH
- BIO 280 Human Anatomy \& Physiology 14 CH
- BIO 281 Human Anatomy \& Physiology II 4 CH
- EDUC 400 Educating English Language Learners 3 CH
- ENG 317 Linguistics 3 CH
- NSCI 202 Intro to Neuroscience 4 CH
- PSY 150 General Psychology 3 CH
- PSY 235 Research Methods 3 CH
- PSY 255 Lifespan Development 3 CH


## Data Analytics

## Bachelor of Science Degree

The Data Analytics program is designed to give students a strong background in the fundamentals of data science. Students study mathematics, computer science, and data science in order to have a broad understanding of the subject. Students graduating with a degree in Data Analytics will be well prepared for careers in business, government, and science in addition to being prepared for graduate study in data science.

A student who graduates from Thiel College with a major in Data Analytics will

- Demonstrate proficiency in standard mathematical and statistical methods relevant to data science
- Be able to use programming and databases to organize and process data
- Be able to use computational and statistical methods to discover patterns within large data sets
- Be able to communicate information effectively through data visualization as well as oral and written communication

A student majoring in Data Analytics must successfully complete the following courses. All courses applied to the major must be completed with a grade of C - or higher.

| CSCI 120 | Intro to Data Analytics | 3 CH |
| :--- | :--- | :--- |
| MATH 181 | Calculus I | 4 CH |
| MATH 182 | Calculus II | 4 CH |
| MATH 291 | Linear Algebra | 4 CH |
| MATH 451 | Probability | 4 CH |
| MATH 461 | Statistics | 4 CH |
| CSCI 149 | Programming in Python | 4 CH |
| CSCI 159 | Intro to Programming | 4 CH |
| CSCI 169 | Data Structures | 4 CH |
| CSCI 319 | Database Management | 4 CH |
| CIS 113 | Data Management App | 1 CH |
| MATH 350 | Data Analysis in R | 4 CH |
| CSCI 422 | Data Mining | 4 CH |

Students majoring in Data Analytics are also required to complete a minor in a data-intensive field, such as business, biology, or sociology. The choice of minor must be approved by the student's academic advisor.

## Environmental Chemistry

## Bachelor of Science Degree

This major provides students with a strong foundation in chemistry and in the environmental sciences. Courses in a variety of disciplines prepare the student well to work in this rapidly growing, interdisciplinary field. Students planning to be professional environmental chemists are strongly encouraged to seek related summer internships and to take more than the minimum coursework in areas related to the environment.

A student who graduates from Thiel College with a major in environmental chemistry will:

- demonstrate competency in conducting an internal or external research project.
- possess scientific literacy and problem solving skills associated with the main branches of chemistry: analytical, biochemistry, inorganic, organic, physical and environmental.
- be able to solve problems dealing with soil, water and atmospheric chemistry, toxic chemicals and waste disposal.
- possess practical field skills including environmental sampling and analysis.
- demonstrate competency in conducting a trace analysis.
- be able to critically analyze current environmental issues from a scientific standpoint.
- be prepared for employment in environmental chemistry or admission into an environmental or chemistryrelated graduate or professional program.
- demonstrate the ability to communicate effectively in oral and written form.


## Major Requirements

The B.S. degree in biochemistry requires all of the courses in Sections A and C, and two courses in Section B. It is expected that the courses from Section B will have an environmental chemistry focus.

## Section A

CHEM 140 General Chemistry I
CHEM 160 General Chemistry II
CHEM 200 Organic Chemistry I
CHEM 210 Organic Chemistry II
CHEM 240 Quantitative Analysis
CHEM 330 Environmental Chemistry
CHEM 370 Instrumental Analysis
CHEM 390 Inorganic Chemistry
CHEM 405 Junior Seminar
CHEM 406 Capstone
CHEM 430 Advanced Topics in Environmental Chemistry
CHEM 495 Independent Study

## Section B

ENSC 250 Meteorology \& Air Quality Assessment
GEOL 150 Earth Systems
GEOL 210 Principles of Hydrogeology
ENSC 111 Introduction to Environmental Studies
or
BIO 116 Conservation Biology
Section C
MATH 181 Calculus I
MATH 182 Calculus II
PHYS 174 Introductory Physics I
PHYS 184 Introductory Physics II

## Environmental Safety Management Bachelor of Science Degree

Business Administration Courses (12 Credit Hours)

| ACCT 113 | Principles of Accounting I | 3 CH |
| :--- | :--- | :--- |
| BADM 444 <br> or <br> BADM 484 | Operations Management | 3 CH |
| BADM 374 | Human Resources Management |  |
| BADM 334 | Insurance | 3 CH |

Environmental Science Courses (13 Credit Hours)

| ENSC 111 | Introduction to Environmental Studies | 3 CH |
| :--- | :--- | :--- |
| ENSC 200 | Introduction to Environmental Law | 3 CH |
| ENSC 225 | Geographical Information Systems | 3 CH |
| ENSC 250 | Meteorology and Air Quality Assessment | 4 CH |
| Environmental Safety Management Courses (24 Credit Hours) |  |  |


| ESM 110 | Hazard Awareness | 1 CH |
| :--- | :--- | :--- |
| ESM 111 | Introduction to Safety | 3 CH |
| ESM 210 | Advanced Hazard Recognition | 1 CH |
| ESM 221 | Emergency Preparedness, Prevention and Response | 3 CH |
| ESM 231 | Construction Safety | 3 CH |
| ESM 241 | Regulatory Compliance and Safety Management | 3 CH |
| ESM 351 | Hazardous Materials and Environmental Safety | 3 CH |
| ESM 361 | Fundamental Concepts of Industrial Hygiene | 3 CH |
| ESM 371 | Essential Topics in Environmental Safety Management | 3 CH |
| ESM 380 | ESM Lab Experience | 1 CH |
| Other Lab Science Courses (12 Credit Hours) Select 3 courses: |  |  |
| BIO 145 | Foundations of Biology | 4 CH |
| CHEM 140 | General Chemistry I | 4 CH |


| CHEM 160 | General Chemistry II | 4 CH |
| :--- | :--- | :--- |
| GEOL 150 | Earth Systems | 4 CH |
| PHYS 154/174 | Introductory Physics I | 4 CH |
| PHYS 164/184 | Introductory Physics II | 4 CH |
| Internship (12 Credit Hours) |  |  |
| ESM 499 | Environmental Safety Management Internship |  |
|  | TOTAL $\mathbf{7 3 ~ C H}$ |  |

Environmental Safety Management Major - Year 1 recommended courses

| Year 1 | SEMS 110 $(3 \mathrm{CH})$ | INDS 101/ENG 101 $(3 \mathrm{CH})$ |
| :--- | :--- | :--- |
| As a | INDS 101/ENG 101 $(3 \mathrm{CH})$ | Religion Core 3 CH$)$ |
| First Year | Math 107 or Math $142(3 \mathrm{CH})$ | Concern for Well-Being Core $(2 \mathrm{CH})$ |
| Student | ENSC 111 Introduction to | ESM 111 Introduction to Safety $(3 \mathrm{CH})$ |
| 31 credits | Environmental Studies $(3 \mathrm{CH})$ | GEOL 150 $(4 \mathrm{CH})$ |
|  | Social Science Core $(3 \mathrm{CH})$ | ESM 110 Hazard Awareness $(1 \mathrm{CH})$ |
|  |  |  |
|  | 15 credit hours | 16 credit hours |

## Information Systems

## Bachelor of Science Degree

The Information Science degree focuses on using technology as a tool to manage information in a variety of contexts. Students majoring in Information Systems will be prepared to enter the workforce with skills in both business and technology or to pursue graduate education.

A student who graduates with a degree in Information Systems will be able to

- Understand and apply core knowledge of programming, networking, and databases.
- Identify and analyze requirements for information or web systems.
- Demonstrate effective knowledge of business applications.
- Demonstrate effective communications to both business and IT professionals.

In addition to completing the core requirements, students need to choose a concentration area within Information Systems program.

## Major Requirements

All courses that are applied to the major must be completed with a grade of C - or higher.

| IS 120 | A+ | 3 CH |
| :--- | :--- | :--- |
| IS 260 | Networking + | 3 CH |
| CIS 129 | Fundamentals of Info Systems | 3 CH |
| BADM 384 | Business Communication | 3 CH |
| CSCI 159 | Intro to Programming | 4 CH |
| CIS 111 | Word Processing Applications | 1 CH |
| CIS 112 | Spreadsheet Applications | 1 CH |
| CIS 113 | Data Management Applications | 1 CH |
| CSCI 319 | Database Management | 4 CH |

Complete the requirements for one of the following concentrations:

| Business and E-Commerce |  |  |
| :--- | :--- | :--- |
| CSCI 139 | Web Design and Development | 3 CH |
| CIS 201 | E-Commerce | 3 CH |


| CIS 241 | Project Management | 3 CH |
| :--- | :--- | :--- |
| CSCI 331 | Web Programming | 4 CH |
| CSCI 351 | Information Security and Forensics | 3 CH |
| CIS 469 | System Analysis | 3 CH |

## Web Development

| CSCI 139 | Web Design and Development | 3 CH |
| :--- | :--- | :--- |
| CSCl 331 | Web Programming | 3 CH |
| CIS 201 | E-Commerce | 3 CH |
| CSCl 431 | Professional Web Portfolio | 3 CH |
| IS 140 | Graphics Applications | 3 CH |
| BADM 324 | Advertising | 3 CH |
| CSCl 351 | Info System Security and Forensics | 3 CH |

## Software and Networking

| CSCI 120 | Intro to Data Analytics | 3 CH |
| :--- | :--- | :--- |
| CSCI 149 | Programming in Python | 4 CH |
| CSCI 169 | Data Structures | 4 CH |
| CSCI 351 | Info. Sys. Security and Forensics | 3 CH |
| CSCI 439 | Data Communication \& Networks | 3 CH |
| CIS 469 | System Analysis | 3 CH |

## Neuroscience

## Bachelor of Science Degree

## Major Requirements (50-52 CH)

## Core Courses

| NSCI 101 | Brain and Behavior | 4 CH |
| :--- | :--- | :--- |
| NSCI 202 | Introduction to Neuroscience | 4 CH |
| NSCI 303 | Techniques in Neuroscience | 4 CH |
| NSCI 313 | Junior Seminar in Neuroscience | 2 CH |
| NSCl 404 | Advanced Neuroscience | 3 CH |
| NSCI 414 | Senior Seminar in Neuroscience | 2 CH |

Choose ONE of the following:

| NSCI 489 | Internship in Neuroscience | 2 CH |
| :--- | :--- | :--- |
| NSCI 499 | Independent Research in Neuroscience | 2 CH |

## Related Courses

| CHEM 140 | General Chemistry I | 4 CH |
| :--- | :--- | :--- |
| CHEM 160 | General Chemistry II | 4 CH |
| CHEM 200 | Organic Chemistry I | 4 CH |
| CHEM 210 | Organic Chemistry II | 4 CH |

Choose ONE of the following:

| PHIL 267 | Ethics | 3 CH |
| :--- | :--- | :--- |
| PHIL 387 | Medical Ethics | 3 CH |
| REL 200 | Contemporary Ethical Issues | 3 CH |

Elective Courses - Choose THREE, from THREE different departments. One elective must be a 4 CH laboratory course. Note: elective courses may have prerequisites not listed here.

| BIO 272 | Animal Behavior | 4 CH |
| :--- | :--- | :--- |
| BIO 281 | Human Anatomy and Physiology II | 4 CH |
| BIO 290 | Cell Biology | 4 CH |


| BIO 322 | Genetics | 4 CH |
| :---: | :---: | :---: |
| BIO 343 | Developmental Biology | 4 CH |
| BIO 399 | Molecular Biology | 4 CH |
| CSD 213 | Nature and Development of Language | 3 CH |
| CSD 214 | Speech and Hearing Science | 3 CH |
| CSD 215 | A\&P of the Vocal Mechanism | 3 CH |
| CSD 500 | Neurology of Communication Disorders | 3 CH |
| CHEM 345 | Biochemistry I | 4 CH |
| CHEM 348 | Biochemistry II | 3 CH |
| CHEM 440 | Advanced Topics Biochemistry | 3 CH |
| ENGL 317 | Linguistics | 3 CH |
| NSCI 320 | Neuropharmacology | 3 CH |
| NSCI 330 | Neuroanatomy | 3 CH |
| NSCI 340 | Neuroendocrinology | 3 CH |
| NSCI 350 | Neuroscience Diseases and Disorders | 3 CH |
| NSCI 390 | Special Topics in Neuroscience | 3 CH |
| PHIL 347 | Philosophy of Mind | 3 CH |
| PHYS 164/184 | Introduction to Physics II | 4 CH |
| PSY 223 | Social Psychology | 3 CH |
| PSY 241 | Abnormal Behavior | 3 CH |
| PSY 255 | Lifespan Development | 3 CH |
| PSY 262 | Child Development | 3 CH |
| PSY 272 | Adulthood and Aging | 3 CH |
| PSY 342 | Cognitive Psychology | 3 CH |
| PSY 352 | Sensation and Perception | 3 CH |
| PSY 450 | Topics in Psychology | 3 CH |
| REL 250 | Psychology of Religion | 3 CH |

## Accounting

## Minor Requirements

| ACCT 113 | Principles of Accounting I | 3 CH |
| :--- | :--- | :--- |
| ACCT 123 | Principles of Accounting II | 3 CH |
| ACCT 213 | Intermediate Accounting I | 3 CH |
| ACCT 223 | Intermediate Accounting II | 3 CH |
| ACCT 313 | Cost Accounting | 3 CH |
| ACCT 323 <br> or <br> ACCT 333 | Taxation-Personal | 3 CH |
| ACCT 423 | Taxation-Corporate |  |

## Biology Minors - Programs and Requirements

All courses for any minor in biology must be passed with a grade of C - or better.

## Environmental Biology Minor

The purpose of this minor is to provide depth and diversity of coursework to students who wish to pursue vocations in environmental science and biological conservation upon graduation. It will expand upon the knowledge and skills bases of both environmental science and biology majors who wish to pursue opportunity in the complementary field. It also would establish a strong field science foundation for students in the natural sciences, humanities and social sciences who have strong interest in environmental ethics.

All of the following courses:

| 1. ENSC 111 | Introduction to Environmental Studies | 3 CH |
| :--- | :--- | :--- |
| 2. GEOL 150 | Earth Systems | 4 CH |
| 3. ENSC 225 | Geographical Information Systems | 3 CH |
| 4. BIO 145 | Foundations of Biology | 4 CH |

And three of the following courses:

| BIO 116 | Conservation Biology | 3 CH |
| :--- | :--- | :--- |
| BIO 262 | Animal Systematics* | 4 CH |
| BIO 263 | Plant Systematics* | 4 CH |
| BIO 212 | Microbiology | 4 CH |
| BIO 222 | Entomology | 4 CH |
| BIO 272 | Animal Behavior | 4 CH |
| BIO 273 | Toxicology | 4 CH |
| BIO 295 | General Parasitology | 4 CH |
| BIO 302 | Plant Physiology | 4 CH |
| BIO 394 | Aquatic Ecology | 4 CH |
| Total CH |  | $25-26$ |

*A course from this pair may not count toward both the minor and the Biology or Environmental Science majors.

## Wildlife Biology Minor

This minor serves students who desire a concentration in the study of natural populations of plant and animal life. It would be of special interest to students who are majors in environmental science and geology since it strongly complements these majors. Some students of other natural sciences, social sciences and humanities may also find this concentration useful.

| BIO 145 | Foundations of Biology | 4 CH |
| :--- | :--- | :--- |
| BIO 392 | General Ecology | 4 CH |

And one of the following:

| BIO 222 | Entomology | 4 CH |
| :--- | :--- | :--- |
| BIO 262 | Animal Systematics | 4 CH |
| BIO 263 | Plant Systematics | 4 CH |

And two of the following:

| BIO 116 | Conservation Biology | 3 CH |
| :--- | :--- | :--- |
| BIO 212 | Microbiology | 4 CH |
| BIO 272 | Animal Behavior | 4 CH |
| BIO 295 | General Parasitology | 4 CH |
| BIO 322 | Genetics | 4 CH |
| BIO 350 | Principles of Immunology | 3 CH |
| BIO 394 | Aquatic Ecology | 4 CH |

## Food and Agricultural Biology Minor

Biology is one of the foundation disciplines for nutrition, food and agricultural sciences. Food and agricultural sciences are striving to revitalize their roots in the liberal arts. This set of courses provides basic preparation in biology that is relevant to any student who wants to pursue eventual advanced study in agriculture.

| BIO 145 | Foundations of Biology | 4 CH |
| :--- | :--- | :--- |
| BIO 222 | Entomology | 4 CH |
| BIO 263 | Plant Systematics | 4 CH |
| BIO 392 | General Ecology | 4 CH |

And one of the following:

| BIO 110 | Ethnobotany | 4 CH |
| :--- | :--- | :--- |
| BIO 111 | Edible Botany | 4 CH |
| BIO 116 | Conservation Biology | 3 CH |
| BIO 212 | Microbiology | 4 CH |
| BIO 302 | Plant Physiology | 4 CH |
| BIO 322 | Genetics | 4 CH |

## Medical Biology Minor

Students with an interest in human and veterinary medicine or related fields typically major in biology or chemistry. However, they may major in other fields. The medical biology minor includes courses that are especially useful in preparation for such careers.

| BIO 145 | Foundations of Biology | $\begin{aligned} & 4 \\ & \mathrm{CH} \end{aligned}$ |
| :---: | :---: | :---: |
| And four of the following: |  |  |
| BIO 280 | Human Anatomy and Physiology I OR BIO 282 Comparative Chordate Anatomy | $\begin{aligned} & 4 \\ & \mathrm{CH} \end{aligned}$ |
| BIO 212 | Microbiology | $\begin{aligned} & 4 \\ & \mathrm{CH} \end{aligned}$ |
| BIO 290 | Cell Biology: A Molecular Approach | $\begin{aligned} & 4 \\ & \mathrm{CH} \end{aligned}$ |
| BIO 295 | General Parasitology | $\begin{aligned} & 4 \\ & \mathrm{CH} \end{aligned}$ |
| BIO 343 | Developmental Biology | $\begin{aligned} & 4 \\ & \mathrm{CH} \end{aligned}$ |
| BIO 322 | Genetics | $\begin{aligned} & 4 \\ & \mathrm{CH} \end{aligned}$ |
| BIO 350 | Principles of Immunology | $\begin{aligned} & 3 \\ & \mathrm{CH} \end{aligned}$ |

## Behavioral Biology Minor

Behavioral biology involves a study of interaction between organisms and their environment, a very pervasive part of biology and its applications. Biology is fundamental to understanding some of the phenomena in the social sciences, especially those considered in psychology and sociology. The minor in behavioral biology establishes a concentration of biology courses that provide keys to understanding behavior in all animals, including that of human
beings. These courses would provide a biological perspective of behavior to complement a social science perspective. It would be of special interest to students of social sciences and humanities.

| BIO 145 | Foundations of Biology | 4 CH |
| :--- | :--- | :--- |
| BIO 272 | Animal Behavior | 4 CH |

And three of the following:

| BIO 118 | Human Evolution | 3 CH |
| :--- | :--- | :--- |
| BIO 322 | Genetics | 4 CH |
| BIO 352 | Animal Physiology | 4 CH |
| BIO 392 | General Ecology | 4 CH |

## Business Administration

## Minor Requirements

| ACCT 113 | Principles of Accounting I | 3 CH |
| :--- | :--- | :--- |
| BADM 233 | Managerial Accounting | 3 CH |
| ECON 221 | Principles of Microeconomics | 3 CH |
| BADM 355 | Business Law I | 3 CH |
| Any one: | Principles of Marketing |  |
| BADM 210 | Finance | 3 CH |
| BADM 344 | Principles of Management | 3 CH |
| BADM 374 |  | 3 CH |

## Coaching Minor

The coaching minor program provides instruction in sports administration and many aspects in the coaching of sports, with concentration on the high school and the collegiate level. The students will understand the development of a budget and the allocation of funds. The students will develop effective communication skills, the skill of working with groups and interview preparation. There is a significant need for qualified coaches for all sports programs. The Institute for the Study of Youth Sports estimates that 40 million youth participate in sports annually. More than 4 million adults serve as volunteer coaches. It is not unusual for schools, community agencies and religious groups to seek competent persons to coach their children. All of these same organizations desire assistance with administration of their sport programs. High school administrators in particular put a very high priority on the hiring of teachers who also are qualified coaches. The need is great for qualified coaching personnel. This issue is at the forefront for parents of children and the administrators in the community, youth, high school and even the collegiatelevel of sports programs.

A student who graduates from Thiel College with a minor in coaching will be able to:

- Identify strategies to motivate athletes within their sports programs in oral and written communication.
- To develop physical training programs and use sports skills effectively.
- Demonstrate an understanding of the administrative facets of coaching by learning how to utilize the equipment, facilities, scheduling, and team logistics.


## Minor Requirements

| BADM 100 or ACCT 113 | Introduction to Business <br> Principles of Accounting I | 3 CH |
| :---: | :---: | :---: |
| HPED 198 or HPED 199 | Slimnastics <br> Fitness, Life \& Wellness | 2 CH |
| $\begin{aligned} & \text { PSY } 150 \\ & \text { or } \\ & \text { SOC } 271 \end{aligned}$ | General Psychology <br> Sociology of Sport | 3 CH |
| COMM 171 | Introduction to Communication | 3 CH |
| HPED 314 | Coaching Organization and Administration | 3 CH |
| HPED 315 | Practicum Experience and CPR | 4 CH |
| TOTAL | 18 CH |  |

Note: Students must possess and maintain current Red Cross CPR and Community First Aid certifications.
Note: Students must have a current TB test and all necessary clearances if coaching experiences take place in public schools.

## Economics

## Minor Requirements

| ACCT 113 | Principles of Accounting I | 3 CH |
| :--- | :--- | :--- |
| ECON 211 | Principles of Macroeconomics | 3 CH |
| ECON 221 | Principles of Microeconomics | 3 CH |
| And any three: |  |  |
| ENSC 320 | Urban \& Regional Land Use Planning | 3 CH |
| POSC 146 | Introduction to Comparative Politics | 3 CH |
| POSC 336 | Public Administration | 3 CH |
| BADM 376 | International Business | 3 CH |

## Environmental Studies

## Minor

The Minor in Environmental Studies is open to all Majors. The objective of the Minor is to provide the student with an interdisciplinary perspective on the environmental field enabling them to become a more environmentally aware steward of the planet. Thiel College graduates with the Environmental Studies Minor seeking employment in a variety of areas will have an advantage over candidates without the Minor. The student must complete at least six (6) courses (19-21 credit hours) to fulfill the requirements.

## Minor Requirements

Required courses (7 credits):

| ENSC 111 | Introduction to Environmental Studies | 3 CH |
| :--- | :--- | :--- |
| GEOL 150 | Earth Systems | 4 CH |
| Elective courses $\mathbf{( 1 2}$ | $\mathbf{- 1 4}$ credits) | - Select 4: |
| ENSC $\mathbf{2 0 0}$ | Environmental Law | 3 CH |
| ENSC $\mathbf{2 2 5}$ | Geographical Information Systems | 3 CH |
| ENSC 250 | Meteorology | 4 CH |
| ENSC $\mathbf{3 2 0}$ | Land Use Planning | 3 CH |
| GEOL 210 | Hydrogeology | 3 CH |
| GEOL 250 | Environmental Geology | 4 CH |

TOTAL 19-21 CH

## Biochemistry

## Minor Requirements

The biochemistry minor provides students with an opportunity to diversify their education in chemistry and biology. Many fields utilizing chemistry and biology, such as medicine, dentistry, pharmacology and medicinal chemistry, involve aspects of biochemistry. This minor is often of interest to biology majors by providing a chemical perspective to their biology studies.

## Fulfillment of the minor requires the following courses:

CHEM 140 General Chemistry I
CHEM 160 General Chemistry II
CHEM 200 Organic Chemistry I
CHEM 210 Organic Chemistry II
CHEM 345 Biochemistry I
CHEM 348 Biochemistry II
BIO 145 Foundations of Biology
BIO 322 Genetics
BIO 290 Cell Biology

## Chemistry

## Minor Requirements

A minor in chemistry consists of all the courses in Section A and one course in Section B:

| Section A |  |
| :--- | :--- |
| CHEM 140 | General Chemistry I |
| CHEM 160 | General Chemistry II |
| CHEM 200 | Organic Chemistry I |
| CHEM 240 | Quantitative Analysis |
| Section B |  |
| CHEM 210 | Organic Chemistry II |
| CHEM 310 | Physical Chemistry-Fundamentals |
| CHEM 320 | Instrumental Analysis |
| CHEM 370 | Organic Structural Analysis |
| CHEM 380 | Inorganic Chemistry |
| CHEM 390 |  |

## Communication Studies <br> Minor Requirements

| COMM 171 | Introduction to Communication | 3 CH |
| :--- | :--- | :--- |
| COMM 181 | Public Speaking | 3 CH |
| COMM 225 | Interpersonal Communication | 3 CH |
| COMM 265 | Communication and Gender | 3 CH |
| COMM 300 | Persuasion | 3 CH |
| COMM 325 | Communication Ethics | 3 CH |
| COMM 331 | Intercultural Communication | 3 CH |

TOTAL 21 CH

Students must maintain a minimum cumulative GPA of 2.0 in the minor.

It is recommended that students minoring in communication studies take an internship and become involved with extracurricular activities in theatre and student media.

## Computer Science

## Minor Requirements

All courses that are applied to the minor must be completed with a grade of C - or higher.

| MATH 221 | Discrete Mathematical Structures | 3 CH |
| :--- | :--- | :--- |
| CSCI 109 | Principles of Computer Science | 3 CH |
| CSCI 159 | Introduction to Programming | 4 CH |
| CSCI 169 | Data Structures | 4 CH |
| CSCI 419 | Computer Organization with Assembler | 4 CH |

Choose one of the following four courses:

| CSCl 269 | Theory of Programming Languages | 4 CH |
| :--- | :--- | :--- |
| CSCl 347 | Theory of Computation | 3 CH |
| CSCl 369 | Design and Analysis of Algorithms | 3 CH |
| CSCl 427 | Operating Systems | 3 CH |

Choose one of the following four courses:

| CIS 469 | Systems Analysis | 3 CH |
| :--- | :--- | :--- |
| CSCl 139 | Web Design and Development | 3 CH |
| CSCl 319 | Database Management | 4 CH |
| CSCl 439 | Data Communication and Networks | 3 CH |

## Criminal Justice Studies

## Minor Requirements

The minor requires a minimum of 18 credit hours and must include the following courses:

| CJS 101 | Introduction to Criminal Justice Studies | 3 CH |
| :--- | :--- | :--- |
| SOC 121 or <br> SOC 141 | Microsociology <br> Macrosociology | 3 CH |
| CJS 221 or <br> CJS 230 | Corrections in America <br> Law Enforcement in America | 3 CH |
| CJS 301 or <br> CJS 305 | Juvenile Justice Studies <br> Victimology | 3 CH |
| SOC 331 or <br> SOC 342 | Criminology <br> Sociological Theory | 3 CH |
| CJS/POSC 438 or <br> POSC 439 or <br> POSC 445 | Criminal Due Process <br> Criminal Law | 3 CH |
| The Great American Trial |  |  |

A declaration of minor in Criminal Justice Studies must be filed no later than the first semester of the senior year.

## Data Analytics

## Minor Requirements

In order to minor in data analytics, a student must successfully complete the following courses. All courses that are applied to the minor must be completed with a grade of C - or higher.

| CSCI 120 | Introduction to Data Analytics | 3 CH |
| :--- | :--- | :--- |
| MATH 211 | Elementary Statistics | 4 CH |
| CIS 113 | Data Management Applications | 1 CH |
| CSCI 149 | Programming in Python | 4 CH |
| CSCI 319 | Database Management | 4 CH |
| MATH 350 | Data Analysis in R | 4 CH |

## English

## Minor

The English minor requires a minimum of 18 credit hours consisting of two required courses (Introduction to Literature, Advanced Composition), one literary survey course (American Literature Survey, British Literature Survey, World Literature Survey), and three other departmental courses not taken to fulfill the previous requirements. All students pursuing the English minor must earn a C-minus or better in all courses to count toward the minor.

- Required Minor Courses 6 CH
- Literature Survey Course $3 \mathbf{C H}$
- Electives 9 CH


## Required Minor Courses

| ENG 120 | Introduction to Literature | 3 CH |
| :--- | :--- | :--- |
| ENG 270 | Advanced Composition and Research | 3 CH |

6 CH Total

## Literature Survey Courses

Any 3 CH from the following

| ENG 210 | British Literature to Romanticism | 3 CH |
| :--- | :--- | :--- |
| ENG 220 | British Literature: 1798 to Today | 3 CH |
| ENG 267 | World Literature Survey | 3 CH |
| ENG 235 | American Literature Survey | 3 CH |

3 CH total

## Elective Courses

ENG $\qquad$ 9 CH total

## Environmental Chemistry

## Minor Requirements

A minor in environmental chemistry consists of all the courses in Section A and two courses selected from Section B.

Section A<br>CHEM 140 General Chemistry I<br>CHEM 160 General Chemistry II<br>CHEM 240 Quantitative Analysis<br>CHEM 330 Environmental Chemistry<br>CHEM 430 Advanced Topics in Environmental Chemistry<br>\section*{Section B}<br>ENSC 250 Meteorology \& Air Quality Assessment<br>GEOL 150 Earth Systems<br>GEOL 210 Principles of Hydrogeology<br>ENSC 111 Introduction to Environmental Studies<br>or<br>BIO 116 Conservation Biology

## Environmental Safety Management

## Minor

The Minor in Environmental Safety Management is open to all majors. It is recommended for Science majors and Business Administration majors. The objective of the minor is to provide the student with a basic background in business administration, environmental science and occupational safety. Thiel College graduates with the ESM Minor seeking employment in manufacturing, construction, healthcare and energy industries (oil and gas) will have an advantage over candidates without the minor. The student must complete at least seven (7) courses (19-20 credit hours) to fulfill the requirements.

## Minor Requirements

Required ESM courses: (4 CH)

| ESM 110 | Hazard Awareness | 1 CH |
| :--- | :--- | :--- |
| ESM 111 | Introduction to Safety | 3 CH |

Select 3 ESM elective courses: ( 9 CH )

| ESM 221 | Emergency Preparedness, Prevention and Response | 3 CH |
| :--- | :--- | :--- |
| ESM 231 | Construction Safety | 3 CH |
| ESM 241 | Regulatory Compliance and Safety Management | 3 CH |
| ESM 351 | Hazardous Materials and Environmental Safety | 3 CH |
| ESM 361 | Fundamental Concepts of Industrial Hygiene | 3 CH |
| ESM 371 | Essential Topics in Environmental Safety Management | 3 CH |
| Minor electives: $(6-7 \mathrm{CH})$ | Business Administration $(3 \mathrm{CH})$ - Select one: |  |


| ACCT 113 | Principles of Accounting I | 3 CH |
| :--- | :--- | :--- |
| BADM 374 | Principles of Management | 3 CH |
| BADM 444 | Operations Management | 3 CH |
| Environmental Science (3-4 CH) - Select one: |  |  |
| ENSC 111 | Introduction to Environmental Studies | 3 CH |
| ENSC 225 | Geographical Information Systems | 3 CH |
| ENSC 250 | Meteorology and Air Quality Assessment | 4 CH |

## Equestrian Studies Minor

Students interested in horses may find the equine minor a perfect fit for pursuing their professional or recreational goals in the equine industry. The selection of equine courses creates a strong working knowledge essential to any individual preparing for the horse industry. The equine minor emphasizes the horse (equine nutrition, behavior, conformation, biomechanics, and selection) allowing it to accompany many majors including but not limited to: Biology, Business, Education, Physical Theory, and Criminal Justice. The combination of lecture and lab courses for the equine minor provides current, hands-on equine learning. The equine minor requires 18 credits.

A student who graduates from Thiel College with a minor in equine will be able to:

- Understand the fundamental concepts in the equine industry.
- Select appropriate horses for specific disciplines based on conformation, breed, and behavior.
- Demonstrate a working knowledge of techniques to supplement training and problem solving.
- Account for the body systems in order to maximize equine performance, longevity, and health.
- Recognize common issues that may arise with horses' health and soundness.
- Judge a class of breed specific horses based on conformation.


## Minor Requirements

## All of the following:

| EQIN 150 | Intro to Equine Science | 3 CH |
| :--- | :--- | :--- |
| EQIN 210 | Equine Behavior | 3 CH |
| EQIN 220 | Equine Nutrition and Feeding | 3 CH |
| EQIN 330 <br> or <br> EQIN 340 | Equine Profiling \& Conformation | 4 CH |
| EQIN 110 <br> or <br> EQIN 120 | Equine Health \& Lameness |  |
| In addition to 2 semesters (2 CH total) of: | 3 CH |  |
| EQIN 100 | Thiel Equestrians | 1 CH |

TOTAL 18 CH

## Film Studies

The film studies minor gives student an interdisciplinary view of the film industry by looking at the history of film, the basics of filmmaking, and how films help define our society. Students take three required film courses while the remaining courses are selected from a diverse offering of film courses taught within other academic departments. The film studies minor must successfully complete a minimum of 18 credit hours.

A student who graduates from Thiel College with a minor in film studies will:

- Interpret film theory, cinematic production, scriptwriting and editing across cultures.
- Recognize and describe various genres of film literature, film criticism, and/or scriptwriting.
- Create scripts and graphics, record digital audio-visual content and complete post-production editing appropriate for moving image media.


## Minor Requirements

Students must maintain a minimum cumulative GPA of 2.0 in the minor.

| COMM 150 | Introduction to Film | 3 CH |
| :--- | :--- | :--- |
| COMM 303 | Field Production \& Editing | 3 CH |
| COMM 335 | Film in American Culture | 3 CH |

The student is also required to select three courses from the following list. At least two of the courses must be offered outside of the Department of Media, Communication and Public Relations. Film courses not listed below can be approved subject to department approval.

| COMM 255 | Dissecting Disney | 3 CH |
| :--- | :--- | :--- |
| COMM 281 | Media Literacy | 3 CH |
| COMM 282 | Writing for Media | 3 CH |
| COMM 415 | Advanced Film Production | 3 CH |
| CJS 431 | Selected Studies: Crime \& Film | 3 CH |
| ENG 286 | Writing for Stage and Screen | 3 CH |
| ENG 495 | Special Topics: Scriptwriting | 3 CH |
| IS 140 | Graphic Arts | 3 CH |
| SOC 431 | Gender and Film | 3 CH |

TOTAL 18 CH

## Minor Requirements

## Fine Art Minor

The fine art minor introduces students to the foundational language of the visual arts through studio courses in drawing, painting, and sculpture as well as art history. The curricular flexibility of this minor is well suited to students who are pursuing art in conjunction with another major or simply as a secondary interest.

A student who graduates from Thiel College with a minor in fine arts will:

- Demonstrate basic art-making skills in the visual arts
- Demonstrate a foundational knowledge of the history of art

| A drawing course 100 <br> or 200 level | 4 CH |
| :--- | :--- |
| A painting course 100 <br> or 200 level | 4 CH |
| A sculpture/3D course <br> 100 or 200 level | 4 CH |
| A studio elective 100 <br> or 200 level | 4 CH |
| ART 101: Survey of <br> Art I | 3 CH |
| ART 201: Survey of | 3 CH |
| Art II | TOTAL |

The Department of Art requires a C- or better in all courses required for the minor.

## History

## Minor Requirements

The history minor must complete a minimum of 18 credit hours with a C- or better.
Choose two of the following (6 CH):

- HIST 101 United States History Until 1877
- HIST 102 United States History Since1877
- SEMS 250 World History

Four HIST courses at the 200-400 level (12 CH):

- At least two courses must be at the 300-400 level.
- At least one course from each of the following history concentrations: United States, European, NonWestern.


## Interdisciplinary Ethics Minor Requirements

The interdisciplinary ethics minor prepares students for ethical leadership and responsibility in a wide variety of professional settings. The expanding field of applied ethics affords opportunities for entry-level employment and also rewards advanced graduate work (in law, medicine and business, as well as politics and government). This series of courses explores the interdisciplinary nature of ethics while strengthening critical thinking and analytic writing. It ensures a theoretical understanding of ethics along with case studies and internship experience resolving concrete ethical dilemmas. A commitment to strengthening these transferable skills provides leverage and qualitative capital in the pursuit of professional positions.

There is a growing need for expertise in applied ethics, in both the public and private arena. Many corporations engage in workplace ethics training and therefore prize applicants who can assist in conflict resolution or who can analyze various conflicts of interest. Ethics boards exist in most mid-sized and larger medical institutions. While the quantity of full- time ethics officers is growing, many organizations employ ethics compliance officers who also fulfill other duties. This minor positions our students for such positions.

The minor in ethics must pass both of the following courses with a C - or better:

| PHIL 267 | Ethics | 3 CH |
| :--- | :--- | :--- |
| PHIL 467 | Advanced Ethical Theory | 3 CH |

The student must also pass with a C or better four courses from the following. At least two of these must be outside the philosophy department, or cross-listed:

| PHIL 387 | Medical Ethics | 3 CH |
| :--- | :--- | :--- |
| PHIL 297 | Environmental Ethics | 3 CH |
| PHIL 277/BADM 364 | Business Ethics | 3 CH |
| CJS 431 | Ethical/Philosophical Issues in Criminal Justice | 3 CH |
| COMM 345 | Communication Ethics | 3 CH |
| REL 200 | Contemporary Ethics | 3 CH |

## Gender Studies Minor

## Gender Studies Student Learning Outcomes

After completing this minor, students will be able to

1. Identify, compare, and evaluate culturally and historically specific constructions of gender;
2. Analyze the intersections of gender with race, ethnicity, class, and sexuality;
3. Employ analytically the concept of gender.

## Minor Requirements

The gender studies minor requires six courses $(18 \mathrm{CH})$ that must be completed with a grade of C - or higher. They are:

INDS 202
Introduction to Women's and Gender Studies:
3 CH
Gender, Culture and Sexuality

Five additional courses representing at least two academic departments outside the student's major area of study are required. At least two courses ( 6 CH ) must be at the 300 -level or above. Current courses that fulfill this requirement are:

| ART 214 | Women in Art | 3 CH |
| :--- | :--- | :--- |
| COMM 265 | Communication and Gender | 3 CH |
| ENG 385 | Women in Literature | 3 CH |
| HIST 241 | European Women's History | 3 CH |
| HIST 450 | Gender and Sexuality in 19th C. Europe | 3 CH |
| INDS 432 | Special Topics in Gender Studies | 3 CH |
| POSC 225 | Gender and Politics | 3 CH |
| PSY 450 | Special Topics: Sex in the 21st Century | 3 CH |
| REL 220 | Women in the Jewish and Christian Traditions | 3 CH |
| REL 413 | Selected Topics: Sex, Sexuality, and Religion | 3 CH |
| SEMS 400 | 7 Deadly Sins and Global Issues | 3 CH |
| SEMS 400 | Women's Issues and Global Human Rights | 3 CH |
| SOC 261 | American Women's Experience: A Multicultural Perspective | 3 CH |
| SOC 271 | Sociology of Sport | 3 CH |


| SOC 401 | Sociology of the Family | 3 CH |
| :--- | :--- | :--- |
| SOC 421 | Gender and Society | 3 CH |
| SOC 431 | Disney and Gender | 3 CH |

Students may petition the Gender Studies Advisory Board to count toward the minor an internship or a course not listed here in which the student demonstrates substantial work toward the program's learning outcomes. For more information contact the Coordinator of the Gender Studies Minor, Dr. Sheila Farr.

## Individualized Minor

An approved individualized minor of at least 15 credit hours and no more than 22 credit hours may be presented in lieu of a departmental minor. At least 9 credit hours must be taken beyond the introductory level.

An individualized minor will provide flexibility for a student to design a program that is on the academic "cutting edge" and closer to the student's area of interdisciplinary interest. Such an option provides a personalized, educationally sound and interdisciplinary approach to academic program planning at Thiel for an academically eligible student.

A student with a minimum GPA of 2.5 wishing to enroll in an individualized minor should first select a faculty mentor. Forms for the individualized minor are available in the Office of Academic Affairs. The form describing the proposed individualized program should be completed by the student and the faculty mentor.

A comprehensive statement by the student justifying the minor must accompany the individualized minor form. The form must list the specific courses to be taken and suggested alternatives and be signed by the student and the faculty mentor before it is presented to the Curriculum Study Committee and the Dean of the College for approval. The proposed individualized minor must be approved by both Curriculum Study Committee and Dean of the College.

The proposed minor must be submitted for approval preferably by the beginning of the junior year, but no later than one year prior to the date of expected graduation. Following approval of the plan, any revisions must be approved by the mentor and Dean of the College.

A copy of the program will remain on file in the Office of Academic Affairs as a model for review and future potential use. A copy should also be placed in the student's advising file and in the Academic Records Office.

Transcript title will be reflected on transcript entry as "Individualized: name of minor."

## International Studies

## Minor Requirements

A minor in international studies is offered through the Political Science Department. The minor in international studies shall successfully complete six courses ( 18 CH ) distributed as follows:

## Required course

POSC $156 \quad$ Introduction to International Relations 3 CH

Any three of the following political science courses:

| POSC 230 | Globalization | 3 CH |
| :--- | :--- | :--- |
| POSC 242 | American Foreign Policy Formulation | 3 CH |
| POSC 310 | International Political Economy | 3 CH |
| POSC 312 | International Security | 3 CH |
| POSC 327 | Politics of Developing Societies | 3 CH |
| POSC 347 | Politics of Industrial Societies | 3 CH |
| POSC 386 | Dictators and Totalitarianism | 3 CH |
| POSC 410 | International Organization and Law | 3 CH |
| POSC 405 | Terrorism | 3 CH |

Any two of the following non-political science courses:

| ART 201 | Modern Art History | 3 CH |
| :--- | :--- | :--- |
| BADM 456 | International Marketing | 3 CH |
| COMM 331 | Intercultural Communication | 3 CH |
| ENG 210 | British Literature to Romanticism | 3 CH |
| ENG 220 | British Literature 1798 to Present | 3 CH |
| HIST 329 | The French Revolution and Napoleon | 3 CH |
| HIST 331 | 19th Century Europe: 1815-1914 | 3 CH |
| HIST 332 | 20th Century Europe: 1914-Present | 3 CH |
| HIST 371 | Latin America: Reform and Revolution | 3 CH |


| HIST 461 | History of Modern China | 3 CH |
| :--- | :--- | :--- |
| HIST 462 | History of Modern Japan | 3 CH |
| REL 190 | World Religions | 3 CH |
| Any foreign language course | 3 CH |  |

## Legal Studies

## Dr. Marie Courtemanche, Coordinator

Legal phenomena extend throughout many contemporary political systems, playing an important role in shaping the conduct of life for both individuals and institutions. Study in the minor emphasizes the forces that shape law and the ways law has been used and understood by a variety of peoples in differing historical circumstances. Political, sociological, historical and philosophical approaches to legal phenomena are included in the program, with other approaches always a possibility for the interested student.

## Minor Requirements

The legal studies minor treats law as a subject of liberal inquiry, open to all students in any major or concentration. The legal studies minor, as a liberal studies program, is not a program in "prelaw" or professional preparation. For those students interested in law as a political, social, historical or philosophical phenomenon, however, the legal studies minor presents an opportunity to study one of the most important aspects of contemporary human society. To graduate with a minor in legal studies, students will need to take three required courses ( 7 CH ), and 5 elective courses ( 15 CH ).

## Required Courses (7 CH)

| PHIL 137 | Critical Thinking | 3 CH |
| :--- | :--- | :--- |
| POSC 186 | Introduction to Legal Studies | 3 CH |
| POSC 199 | LSAT Prep | 1 CH |

## Five Elective Courses (15 CH)

Students will select five additional courses from the following lists to help broaden their understanding of law and legal traditions, cultural backgrounds, and ways to improve their ability to communicate in written and oral form. Students must take two classes from the Written and Oral Communication substantive area, two classes from the Law and Legal Processes substantive area, and one class from the Cultural Awareness substantive area.

Written and Oral Communication (6 CH)
Any two courses from the following:

| COMM 181 | Public Speaking | 3 CH |
| :--- | :--- | :--- |
| COMM 300 | Persuasion | 3 CH |
| ENG 120 | Introduction to Literature | 3 CH |
| ENG 260 | Professional Writing | 3 CH |
| ENG 270 | Advanced Composition and Research | 3 CH |
| ENG 317 | Linguistics | 3 CH |

Law and Legal Processes (6 CH)
Any two courses from the following:

| BADM 355 | Business Law | 3 CH |
| :--- | :--- | :--- |
| BADM 356 | Business Law II | 3 CH |
| COMM 445 | Media Law and Regulations | 3 CH |
| ENSC 210 | Introduction to Environmental Law | 3 CH |
| POSC 388 | The Death Penalty | 3 CH |
| POSC 436 | Constitutional Law | 3 CH |
| POSC/SOC 438 | Criminal Due Process Rights | 3 CH |
| POSC 445 | The Great American Trial | 3 CH |

Awareness of Traditions and Culture (3 CH)
Any one course from the following:

| CJS 301 | Juvenile Justice Studies | 3 CH |
| :--- | :--- | :--- |
| ENG 325 | Survey of American Literature | 3 CH |
| HIST 300 | U.S. Colonial History | 3 CH |
| HIST 305 | Middle Period American History | 3 CH |
| HIST 307 | Emergence of Modern America | 3 CH |
| HIST 309 | Recent American History | 3 CH |
| PHIL 267 | Ethics | 3 CH |
| PHIL 337 | Freedom Justice and Political Power | 3 CH |
| POSC 116 | American Government | 3 CH |
| POSC 226 | State and Local Politics | 3 CH |
| POSC 396 | International Organization and Law | 3 CH |
| SOC 321 | Deviance | 3 CH |
| SOC 331 | Criminology | 3 CH |

## Mathematics

## Minor Requirements

In order to minor in Mathematics a student must complete successfully complete the following courses. All courses applied to the minor must be completed with a grade of C - or higher.

1. Required courses:

| MATH 181 | Calculus I | 4 CH |
| :--- | :--- | :--- |
| MATH 182 | Calculus II | 4 CH |
| MATH 291 | Linear Algebra | 4 CH |

## 2. Elective courses:

Complete three additional 3-4 CH mathematics courses numbered 220 or above. The Capstone Seminar, MATH 341 and MATH 342 cannot be used to fulfill this requirement.

# Media and Journalism <br> Minor Requirements 

At minimum, students must maintain a cumulative GPA of 2.0 in the minor.

| COMM 181 | Public Speaking | 3 CH |
| :--- | :--- | :--- |
| COMM 280 | Survey of Mediated Comm. | 3 CH |
| COMM 282 | Writing for Media | 3 CH |
| COMM 455 | Media Law and Regulation | 3 CH |
| Electives chosen from media and communication major | 12 CH |  |

TOTAL 24 CH

## Music

A student who graduates from Thiel College with a music minor will:

- Demonstrate a basic knowledge of the elements of music.
- Demonstrate knowledge of basic musical analysis and music theory
- Demonstrate basic music composition skills including proper voice leading, chord resolution, and melodic development
- Demonstrate fundamental conducting skills
- Demonstrate knowledge of the historical development of music-medieval to present.
- Demonstrate proficiency in individual skills needed for musical performance through participation in a musical ensemble.


## Minor Requirements

The requirements for the minor in music include successful completion of the following courses for a total of 23 credit hours:

| MUS 115 | Intro. to Music: Music Theory I | 3 CH |
| :--- | :--- | :--- |
| MUS 154 | Music Theory II | 3 CH |
| MUS 100 | Music Appreciation | 3 CH |
| MUS 390 | The History of Classic Jazz | 3 CH |
| MUS 364 | Choral Conducting | 2 CH |
| Applied Music—private lessons instrumental or voice lessons | 4 CH |  |
| Ensemble—choir, band | 5 CH |  |

TOTAL 23 CH

## Neuroscience

## Bachelor of Science Degree

## Minor Requirements (21-23 CH)

## Core Courses

| NSCI 101 | Brain and Behavior | 4 CH |
| :--- | :--- | :--- |
| NSCI 202 | Introduction to Neuroscience | 4 CH |
| NSCI 303 | Techniques in Neuroscience | 4 CH |
| NSCI 404 | Advanced Neuroscience | 3 CH |

Elective Courses - Choose any TWO additional electives. Note: elective courses may have prerequisites not listed here.

| BIO 272 | Animal Behavior | 4 CH |
| :--- | :--- | :--- |
| BIO 280 | Human Anatomy and Physiology I | 4 CH |
| BIO 281 | Human Anatomy and Physiology II | 4 CH |
| BIO 290 | Cell Biology | 4 CH |
| BIO 322 | Genetics | 4 CH |
| BIO 343 | Developmental Biology | 4 CH |
| BIO 399 | Molecular Biology | 4 CH |
| CSD 213 | Nature and Development of Language | 3 CH |
| CSD 214 | Speech and Hearing Science | 3 CH |
| CSD 215 | A\&P of the Vocal Mechanism | 3 CH |
| CSD 500 | Neurology of Communication Disorders | 3 CH |
| CHEM 345 | Biochemistry I | 4 CH |
| CHEM 348 | Biochemistry II | 3 CH |
| CHEM 440 | Advanced Topics Biochemistry | 3 CH |
| ENGL 317 | Linguistics | 3 CH |
| NSCI 320 | Neuropharmacology | 3 CH |
| NSCI 330 | Neuroanatomy | 3 CH |


| NSCI 340 | Neuroendocrinology | 3 CH |
| :---: | :---: | :---: |
| NSCI 350 | Neuroscience Diseases and Disorders | 3 CH |
| NSCI 390 | Special Topics in Neuroscience | 3 CH |
| PHIL 347 | Philosophy of Mind | 3 CH |
| PHYS 164 OR PHYS 184 | Introduction to Physics II | 4 CH |
| PSY 223 | Social Psychology | 3 CH |
| PSY 241 | Abnormal Behavior | 3 CH |
| PSY 255 | Lifespan Development | 3 CH |
| PSY 262 | Child Development | 3 CH |
| PSY 272 | Adulthood and Aging | 3 CH |
| PSY 342 | Cognitive Psychology | 3 CH |
| PSY 352 | Sensation and Perception | 3 CH |
| PSY 450 | Topics in Psychology | 3 CH |
| REL 250 | Psychology of Religion | 3 CH |
| SOC 281 | Sociology of Aging | 3 CH |
| SOC 391 | Medical Sociology | 3 CH |

## Interdisciplinary Ethics Minor

The interdisciplinary ethics minor prepares students for ethical leadership and responsibility in a wide variety of professional settings. The expanding field of applied ethics affords opportunities for entry-level employment and also rewards advanced graduate work (in law, medicine and business, as well as politics and government). This series of courses explores the interdisciplinary nature of ethics while strengthening critical thinking and analytic writing. It ensures a theoretical understanding of ethics along with case-study experience resolving concrete ethical dilemmas. A commitment to strengthening these transferable skills provides leverage and qualitative capital in the pursuit of professional positions.

There is a growing need for expertise in applied ethics in both the public and private arena. Many corporations engage in workplace ethics training, and therefore value applicants who can assist in conflict resolution or who can analyze various conflicts of interest. Ethics committees exist in most mid-sized and larger health-care institutions. While the quantity of full- time ethics officers is growing, many organizations employ ethics compliance officers who also fulfill other duties. The minor positions our students for such positions.

The minor in Ethics must pass both of the following courses with a C or better:

| PHIL 267 | 3 CH | Ethics |
| :--- | :--- | :--- |
| PHIL 467 | 3 CH | Advanced Ethical Theory |

The student must also pass, with a C or better, four courses from the following list. At least two of these must be outside the philosophy department, or cross-listed:

| PHIL 387 | 3 CH | Medical Ethics |
| :--- | :--- | :--- |
| PHIL 297 | 3 CH | Environmental Ethics |
| PHIL 277 <br> BADM 364 | 3 CH | Business Ethics |
| CJS 431 | 3 CH | Ethical/Philosophical Issues in Criminal Justice |
| COMM 345 | 3 CH | Communication Ethics |
| REL 200 | 3 CH | Contemporary Ethics |

## Minor Requirements in Philosophy

To minor in philosophy, a student must complete at least 18 credit hours in philosophy (six courses):

## Four Required Courses:

| PHIL 127 | 3 CH | Introduction to Philosophy |
| :--- | :--- | :--- |
| PHIL 137 | 3 CH | Critical Thinking |
| PHIL 147 | 3 CH | Ancient Ideas: Greece to Rome |
| or |  |  |
| PHIL 157 |  | Modern Ideas: Science, the Soul and the Good Life |
| PHIL 267 | 3 CH | Ethics |

And:
Two Elective Philosophy courses at the 200-level or higher

## Political Science

## Minor Requirements

The minor in political science shall successfully complete six courses (18 CH ) in political science:

| POSC 116 | American Government and Politics | 3 CH |
| :--- | :--- | :--- |
| POSC 146 | Introduction to Comparative Politics | 3 CH |
| POSC 156 | Introduction to International Relations | 3 CH |
| Three additional departmental POSC courses | 9 CH |  |

## Psychology Minor Requirements

The minor in psychology consists of six courses, for a total of 18CH. Psychology minors must abide by all prerequisites, and earn a grade of at least C - in all courses required for the minor. The minor is specifically designed to allow for flexibility in the selection of psychology courses to best meet each student's interests in the field.

| Psychology Minor: |  | $\mathbf{1 8} \mathbf{C H}$ total |
| :--- | :--- | :--- |
| PSY 150 | General Psychology | 3 CH |
| PSY elective \#1 | Any 3CH or higher PSY course | 3 CH |
| PSY elective \#2 | Any 3CH or higher PSY course | 3 CH |
| PSY elective \#3 | Any 3CH or higher PSY course | 3 CH |
| PSY elective \#4 | Any 3CH or higher PSY course | 3 CH |
| PSY elective \#5 | Any 3CH or higher PSY course | 3 CH |

# Public Relations, Advertising and Integrated Marketing Communication 

## Minor Requirements

Students must maintain a minimum cumulative GPA of 2.0 in courses in the minor.

| COMM 155 | Introduction to Integrated Marketing Comm. | 3 CH |
| :--- | :--- | :--- |
| COMM 240 | Public Relations | 3 CH |
| COMM 282 | Writing for Media | 3 CH |
| COMM 405 | Advanced Public Relations | 3 CH |
| IS 140 | Graphic Arts | 3 CH |
| BADM 324 | Advertising | 3 CH |

TOTAL 18 CH

## Religion Minor Requirements

Students minoring in religion will earn 17-18 credits. Students must complete two required courses and four electives.

REL 120 Interpreting the Jewish and Christian Scriptures
or
REL 121 Intro to the Old Testament/Hebrew Bible
or
REL 122 Introduction to the New Testament
or
REL 123 Intro to Christianity

REL 190 World Religions
Four additional elective courses in Religion

## Pre-Ministry - Minor Requirements

Students minoring in pre-ministry must meet the following minimum requirements:
Foundations (3 CH)
REL 130 Introduction to Ministry
Biblical Studies (6 CH)
REL 120 Interpreting the Jewish and Christian Scriptures
GREK/REL 150 Introduction to Greek Language
Practical Studies (3 CH)
REL 180 Christian Worship
or
MUS 354 History of Sacred Music
(with permission of instructor)
Historical Studies (3 CH)
REL 160 Religion in the United States
or
REL 190 World Religions
or
REL 240 African American Religion in the United States
or
REL 140 History of Christianity
Theological Studies (3 CH)
REL 230 Philosophy of Religion
or
REL 200 Contemporary Ethical Issues
or
REL 290 Luther and His Legacy

## Sociology

## Minor Requirements

The minor requires a minimum of 18 credit hours and must include the below courses:

| SOC 121 | Microsociology | 3 CH |
| :--- | :--- | :--- |
| SOC 141 | Macrosociology | 3 CH |
| SOC 211 | Anthropology | 3 CH |
| SOC 342 | Sociological Theory | 3 CH |

In addition, two additional sociology courses (numbered 261 through 491, excluding 455) are required.
A declaration of a minor in sociology must be filed no later than the first semester of the senior year.

## Spanish Language and Culture

## Minor Requirements

The Minor in Spanish Language and Culture combines acquisition of linguistic competence with the study of the cultural and historic manifestations of the Spanish-speaking world.

The requirements for the minor include 18 CHs of coursework above the introductory levels.

## ALL of the following courses (18 CH):

SPAN 214 Intermediate Spanish I
SPAN 224 Intermediate Spanish II
SPAN 305 Applied Spanish Phonetics
SPAN 310 Spain: Culture and Civilization
SPAN 315 Advanced Intermediate I
SPAN 325 Advanced Intermediate II

Upon completion of the minor in Spanish Language and Culture, students should be able to:

- Speak, read, write, and comprehend Spanish at the intermediate-high level on a variety of current cultural topics;
- Demonstrate knowledge of the geography and culture of countries where the language is spoken and of Spain and Latin America's historical and contemporary position in the modern world;
- Recognize the historical, cultural, and creative contexts of Hispanic cultures and effectively articulate how such factors shape their world perspectives;
- Understand the impact Hispanic cultures and the Spanish language have had and continue to have on other cultures;
- Respect cultural differences leading to meaningful interaction within a Spanish-speaking society and in any culturally-diverse situation.


## Theatre

A student who graduates from Thiel College with a theatre minor will:

- Demonstrate a working knowledge of the various aspects of theatre production;
- Articulate the development of performance traditions from ancient to modern times;
- Employ effective techniques in design, management, or performance;
- Be conversant in dramatic texts and theories from diverse periods and cultures;
- Analyze social, cultural, and political contexts as in dramatic literature and performance practices.


## Minor Requirements

The requirements for the minor in theatre include successful completion of the following courses for a total of 12 credits:

All of the following:

| THAR 287 | Theatre History I | 3 CH |
| :---: | :---: | :---: |
| THAR 297 | Theatre History II | 3 CH |
| THAR 217 | Technical Theatre | 3 CH |
| THAR 257 | Basic Acting | 3 CH |
| And one of each pair for an additional 8-11 credits: |  |  |
| ENG 286 or THAR 347 | Creative Writing: Drama <br> Advanced Acting \& Directing | $3-4 \mathrm{CH}$ |
| ENG 330 <br> or <br> THAR 205 | Dramatic Literature <br> Analysis to Performance | 2-3 CH |
| THAR 417 or THAR 225 | Theatre Seminar <br> Shakespeare: Page to Stage | $3-4 \mathrm{CH}$ |

## Business Certificate for Non-Majors

The Fundamentals of Business for Non-Majors concentration will provide the fundamentals of management to enable non-majors to enter work environments in which these skills are essential. Through the concentration, students will acquire:

- A basic understanding of management principles
- Knowledge of budgeting, including structure and uses
- Awareness of basic legal issues common to all organizations

The program consists of three, 3 CH courses, two to be selected by the student from the following list in addition to the required Introduction to Business (BADM 100):

- BADM 210 Principles of Marketing
- BADM 324 Advertising
- BADM 334 Risk Management and Insurance
- BADM 374 Principles of Management
- BADM 384 Business Communication
- BADM 484 Human Resource Management
- ACCT 323 Taxation - Personal


## English Certificates for non-Majors

The English Department offers certificates in each of the specializations that are available to non-majors. Certificates may be taken to complement the student's chosen major, to demonstrate proficiency in a chosen area, and to permit the study of a desired cluster of courses in a manageable fashion. English certificates require at least 9 credit hours beyond ENG 101 in one of the specializations. A certificate in English Studies is also available to nonmajors who wish to complement their chosen major by providing a broader rather than a specialized concentration in English. An English Studies certificate allows students to choose any three English Department electives for a total of 9 credit hours.

Students must earn a C-minus or better in all courses to count toward the English certificate. The English Department offers the following certificates:

| English Certificate in Professional Writing - Any 9CH |  |  |
| :--- | :--- | :--- |
| ENG 212 | Creative Nonfiction | 3 CH |
| ENG 242 | Digital Rhetoric | 3 CH |
| ENG 260 | Professional Writing | 3 CH |
| ENG 270 | Advanced Composition \& Research | 3 CH |
| COMM 282 | Writing for Mass Media | 3 CH |
| ENG 317 | Linguistics | 3 CH |
| ENG 335 | Persuasive Writing | 3 CH |

## English Certificate in Creative Writing - Any 9CH

| ENG 212 | Creative Nonfiction | 3 CH |
| :--- | :--- | :--- |
| ENG 282 | Poetry Writing | 3 CH |
| ENG 284 | Fiction Writing | 3 CH |
| ENG 286 | Writing for Stage and Screen | 3 CH |
| ENG 317 | Linguistics | 3 CH |

English Certificate in Literature Studies - Any 9CH
ENG 120 Introduction to Literature 3 CH
ENG $190 \quad$ Science Fiction and Fantasy 3 CH

| ENG 210 | British Literature to Romanticism | 3 CH |
| :--- | :--- | :--- |
| ENG 220 | British Literature: 1798 to Today | 3 CH |
| ENG 235 | American Literature Survey | 3 CH |
| ENG 241 | Children's Literature | 3 CH |
| ENG 246 | Adolescent and Young Adult Literature | 3 CH |
| ENG 267 | World Literature Survey | 3 CH |
| ENG 290 | Literature of World Mythology | 3 CH |
| ENG 312 | Topics in the Novel | 3 CH |
| ENG 317 | Linguistics | 3 CH |
| ENG 325 | Exploring Literary New England | 3 CH |
| ENG 340 | Shakespeare | 3 CH |
| ENG 347 | Literary Theory and Criticism | 3 CH |
| ENG 385 | Women in Literature | 3 CH |

English Certificate in Drama Studies - Any 9CH

| ENG 225/THAR 225 | Shakespeare: Page to Stage | 4 CH |
| :--- | :--- | :--- |
| ENG 317 | Linguistics | 3 CH |
| ENG 330 | Dramatic Literature | 3 CH |
| ENG 337 | Drama into Film | 3 CH |
| ENG 340 | Shakespeare | 3 CH |
| ENG 352 | Topics in Drama | 3 CH |

English Certificate in Children's and Young Adult Literature - Any 9CH

| ENG 241 | Children's Literature | 3 CH |
| :--- | :--- | :--- |
| ENG 246 | Adolescent and Young Adult Literature | 3 CH |
| ENG 317 | Linguistics | 3 CH |

Or one related course outside the Department such as PSY 255 - Lifespan
Development or PSY 262 - Child Development

## English Certificate in English Studies

ENG $\qquad$ Any three English Department Electives
9 CH

## Certificate in Entrepreneurship

Through this certificate program students will:

- Develop and apply critical thinking and creativity skills toward the formulation of a new venture
- Assess and refine their entrepreneurial skills by developing insights into the entrepreneurial mindset
- Create a comprehensive business plan for a small business

The program consists of three, 3 CH courses:

| BADM 250 | Introduction to Business Models and Entrepreneurial Skillset | 3 CH |
| :--- | :--- | :--- |
| BADM 300 | Applied Entrepreneurship | 3 CH |
| BADM 473 | Entrepreneurship Seminar | 3 CH |

TOTAL: 9 CH

## Certificate in Ethics:

The Certificate in Ethics provides an intermediate-level understanding of ethics to non-majors/ non-minors of Philosophy. It may complement the student's major and/or demonstrate a significant level concentration in the discipline. It requires three courses, two of them in specified introductory level courses (Phil 137, 267), and one applied ethics course the student elects: Business Ethics, Environmental Ethics, or Medical Ethics.

Two required courses:

| PHIL 267 | 3 CH | Ethics |
| :--- | :--- | :--- |
| PHIL 137 | 3 CH | Critical Thinking |

One Elective course:

| PHIL 387 | 3 CH | Medical Ethics |
| :--- | :--- | :--- |
| PHIL 297 | 3 CH | Environmental Ethics |
| PHIL 277 <br> BADM 364 | 3 CH | Business Ethics |

## Certificate in Philosophy:

The Certificate in Philosophy provides an intermediate-level understanding of philosophy to non-majors and nonminors. It may complement the student's major and/or to demonstrate and receive recognition for some concentration in the discipline. It will require three courses, two in specified introductory level courses (Phil 127, 137), and one additional philosophy course the student selects.

Two Required Courses:

| PHIL 127 | 3 CH | Introduction to Philosophy |
| :--- | :--- | :--- |
| PHIL 137 | 3 CH | Critical Thinking |

One Elective Course:
Any additional course offered in the Philosophy Department

## Religion Certificate

The Certificate in Religion will provide an intermediate-level understanding of religion and religions to nonmajors and non-minors. It may be pursued to complement the student's major and/or to demonstrate and receive recognition for proficiency in the discipline. It will require at least eight credit hours, six credit hours in specified foundational courses and two or three credit hours in religion courses the student selects.

REL 120 Interpreting the Jewish and Christian Scriptures
or
REL 121 Intro to the Old Testament/Hebrew Bible
or
REL 122 Introduction to the New Testament
or
REL 123 Intro to Christianity

## REL 190 World Religions

One additional religion course (2-3 CH)

## Certification in Secondary Biology Education (Grades 712) with a Major in Biology

Foundational Courses-This course set is designed to provide the student with a basic understanding of the principles of science in general and biology in particular. They are to be taken during the first two years.

BIO 145 Foundations of Biology
And one of the following four systematics courses:
BIO 212 Microbiology
BIO 222 Entomology
BIO 262 Animal Systematics
BIO 263 Plant Systematics
Area Studies/Breadth in the Discipline of Biology-This course set is designed to introduce the student to concepts and principles of the major areas within the discipline of biology. They are to be taken after the foundational courses:

BIO 290 Cell Biology
BIO 322 Genetics
BIO 342 Biostatistics and Research Methods
BIO 392 General Ecology
Students must choose one elective based on availability and intent. The elective must be a 200 or 300 level BIO lab course that is 4 credits except BIO 350 - Principle of Immunology. Students may also choose NSCI 202, 209 or 315.

BIO XXX Elective

Capstone Experience-These three courses are designed to integrate material from a variety of courses and experiences and to provide the student with opportunities for development as a mature and independent scientist. Independent Research may begin in the junior year.

BIO 395 Junior Research Seminar
BIO 462 Senior Seminar

And one of the following two courses:
BIO 452 Advanced Biology (2 CH)
BIO 482 Independent Study (2 CH)
A completed research project under the supervision of a biology department faculty member is required of the student majoring in biology.

Related Math and Science Courses - Precalculus and eight credits of another science, either chemistry or physics, is required of the student majoring in biology.

MATH 142 Precalculus

And one of the following three pairings:
CHEM 140 General Chemistry I
CHEM 160 General Chemistry II OR
PHYS 154 Physics I (non-calc based)
PHYS 164 Physics II (non-calc based)
OR
PHYS 174 Physics I (calculus based)
PHYS 184 Physics II (calculus based)

# Certification in Secondary Chemistry Education (Grades 7-12) with a Major in Chemistry 

Foundational Courses-This course set is designed to provide the student with a basic understanding of the principles of science in general and chemistry in particular.

CHEM 140 General Chemistry I
CHEM 160 General Chemistry II
CHEM $\qquad$ Intro to Inorganic Chemistry
CHEM 200 Organic Chemistry I
CHEM 210 Organic Chemistry II
CHEM 240 Quantitative Analysis
CHEM 315 Fund. of Physical Chemistry
CHEM 405 Chemistry Capstone I
CHEM 406 Chemistry Capstone II

Choose one of the following:
CHEM 490 Problems in Chemistry
CHEM 495 Independent Study
Choose one of the following:
CHEM 325 App of Physical Chemistry
CHEM 370 Instrumental Analysis
CHEM 390 Inorganic Chemistry
All of the following:
MATH 181 Calculus I
MATH 182 Calculus II
PHYS 174 Introductory Physics I
PHYS 184 Introductory Physics II

# Certification in Secondary English Education (Grades 712) with a Major in English 

## Foundation Courses for English Major with Secondary Education Certification:

ENG 120 Introduction to Literature
ENG 210 British Literature to Romanticism
ENG 220 British Literature 1798-Present
ENG 235 American Literature Survey
ENG 267 World Literature Survey
ENG 270 Advanced Composition and Research
ENG 317 Linguistics
ENG 495 English Capstone
Distribution and Specialization Courses: Choose one course from each Specialization to fulfill the distribution requirement. Select one or more Specializations by completing an additional 6CH from your chosen subfield.

PROFESSIONAL WRITING
ENG 212: Creative Nonfiction
ENG 242: Digital Rhetoric
ENG 260: Professional Writing
COMM 282: Writing for Mass Media
ENG 335: Persuasive Writing

## CREATIVE WRITING

ENG 212: Creative Nonfiction
ENG 282: Poetry Writing
ENG 284: Fiction Writing
ENG 286: Writing for Stage and Screen

## LITERATURE

ENG 190: Science Fiction and Fantasy
ENG 290: Literature of World Mythology
ENG 241: Children's Literature
ENG 246: Adolescent and YA Literature
ENG 340: Shakespeare
ENG 312: Topics in the Novel
ENG 347: Literary Theory and Criticism* (required for the literature specialization)
ENG 385: Women in Literature

DRAMA
ENG 225: Shakespeare Page to Stage
THAR 287: Theater History I
THAR 297: Theater History II
ENG 330: Dramatic Literature
ENG 337: Drama in Film
ENG 340: Shakespeare
ENG 352: Topics in Drama
Note: There is a GPA requirement for ALL education classes, whether one is an education major or not. A GPA of 2.75 is required for the first three ECE courses, and the first two EDUC courses. A GPA of 3.0 is required for all other education courses.

## Certification in Secondary Mathematics Education (Grades 7-12) with a Major in Mathematics

The requirements for a major in mathematics are designed to provide the students with breadth ( 32 CH in math plus a course in computer science and physics), depth (completion of a two-course sequence*) and flexibility (opportunity to choose from a number of upper division courses). Linear Algebra (MATH 291) is required because the theory taught in this course is widely applicable to contemporary issues, such as sustainability and information security. Courses have also been included that emphasize technology (PHYS 174 or 184 and CSCI 159).

Requirements for secondary certification-The major is designed to provide students with a basic knowledge of foundational mathematics courses, as well as in-depth study within a specific branch of mathematics. All courses that are applied to the major must be completed with a grade of C - or higher.

Required courses:
MATH 181 Calculus I
MATH 182 Calculus II
MATH 281 Calculus III
MATH 291 Linear Algebra
MATH 302 Differential Equations
MATH 371 Real Analysis
Complete one of the following sequence (required by the Pennsylvania Department of Education):
MATH 311 Non-Euclidean Geometry
MATH 331 Abstract Algebra
OR
MATH 451 Probability
MATH 461 Statistics
OR
MATH 432 Numerical Methods
MATH 433 Mathematical Modeling
Complete one additional 3-4 CH mathematics course numbered 220 or above. (MATH 341, 342 or 481 may not be used for this requirement, but PHYS 363 may be used here. MATH 221- Discrete Mathematics is recommended for secondary education majors).

Student teaching will fulfill the capstone requirement.
Complete the following support courses; one from each group:
PHYS 174 Intro to Physics I (calculus-based)
or
PHYS 184 Intro to Physics II (calculus-based)
And
CSCI 159 Introduction to Programming
or
CSCI 189 Java Programming

## Certification in Secondary Social Studies Education (Grades 7-12) with a Major in History

Foundational courses-This course set is designed to provide students with a basic understanding of the nature and study of history and to introduce them to concepts and principles which are fundamental to responsible citizenship.

## Survey courses within the major:

Select two out of these three courses:

HIST 101 United States History to 1877
HIST 102 United States History Since 1877
HIST/SEMS 250 World History

## Required course within the major

HIST 290 Introduction to Historical Methods

Area studies - This set of courses is designed to introduce students to a broad body of historical knowledge and to give them practice in mastering the historical method.

## United States History

Select three courses from the following:

HIST 201 Military History of the United States Until 1900<br>HIST 202 Military History of the United States Since 1900<br>HIST 210 Native American History<br>HIST 296 Selected Topics in the History of Warfare<br>HIST 297 Selected Topics in History and Film<br>HIST 300 United States Colonial History<br>HIST 305 Middle Period in American History<br>HIST 307 Emergence of Modern America<br>HIST 309 Recent American History<br>HIST 490 Advanced Topics in History (U.S. Focus)

## European History

Select three courses from the following:
HIST 241 Women's History
HIST 296 Selected Topics in the History of Warfare
HIST 297 Selected Topics in History and Film
HIST 331 19th Century Europe 1815--1914
HIST 332 20th Century Europe 1914-Present
HIST 430 History of Modern Russia
HIST 431 The French Revolution and Napoleon
HIST 440 History of Modern France
HIST 450 Gender and Sexuality in 19th Century Europe
HIST 490 Advanced Topics in History (Europe Focus)

## World (Non-Western) History

Select three courses from the following:
HIST 260 East Asian History
HIST 282 History of Modern Middle East
HIST 296 Selected Topics in the History of Warfare
HIST 297 Selected Topics in History and Film
HIST 362 Japanese History: Tokugawa to Present
HIST 370 Latin America: Culture, Conquest and Colonization
HIST 371 Latin America: Reform and Revolution
HIST 461 History of Modern China
HIST 462 History of Modern Japan
HIST 490 Advanced Topics in History (Non-Western Focus)

Capstone Experience-This requirement is designed to give students hands-on experience in the profession.
Choose one of the following:
HIST 496 Research Capstone in United States History
HIST 497 Research Capstone in European History
HIST 498 Research Capstone in World History

## Secondary Education Certification

## English, Biology, Chemistry, History/Social Studies, Mathematics

All Secondary Education Certification students will be assigned an advisor from the education department and an advisor from their major area of study.

A student who graduates from Thiel College with a major in English, History, Mathematics, Biology or Chemistry and a Secondary Education Certificate will:

1. Demonstrate oral, written, and presentation communication skills appropriate to the field.
2. Demonstrate mastery of major content knowledge areas and pedagogical strategies to design engaging and meaningful instruction and learning activities.
3. Demonstrate their knowledge of diversity by addressing learners' commonalities and individual differences to design inclusive learning experiences.
4. Apply the Council for Accreditation of Education Preparation (CAEP) standards to their discipline in the Secondary Education course of study, as assessed by the content field department.
5. Understand and demonstrate effectiveness by designing rigorous and effective lessons and learning experiences.

## Secondary Education Certification

| EDUC 111 | Foundations of American Education | 3 CH |
| :---: | :---: | :---: |
| EDUC 112 | Psychological Foundations of Education | 3 CH |
| EDUC 215 | Curriculum, Instruction and Assessment | 3 CH |
| EDUC 220 | Integrated Instructional Systems | 3 CH |
| EDUC 255 | Mentoring I | 3 CH |
| EDUC 400 | Educating English Language Learners | 3 CH |
| SPED 356 | Special Education Processes, Procedures, Screening, Assessment, IEP Development and Evaluation | 3 CH |
| SPED 357 | Effective Instructional Practices and Delivery Methods in Subject Area Content for All Levels of Special Education Support | 3 CH |
| SPED 358 | Intensive Reading, Writing and Math Intervention Approaches | 3 CH |
| SECED 268 | Mentoring, Part II: On-Site Secondary Methodology | 3 CH |
| SECED 325 | Teaching Reading/Writing in the Content Areas | 3 CH |


| SECED 340 | Teaching English in Secondary Schools | 3 CH |
| :--- | :--- | :--- |
| SECED 350 | Teaching Social Studies in Secondary Schools |  |
| SECED 360 | Teaching Math in Secondary Schools |  |
| SECED 370 | Teaching Science in Secondary Schools |  |
| SECED 444 | Student Teaching | 12 CH |
|  |  | TOTAL 48 CH |

Notes:

- EDUC 111, EDUC 112, and EDUC 215 are prerequisites most other Education Department courses
- There is a GPA requirement for ALL education classes, whether one is an education major or not. A cumulative GPA of 2.75 is required for the first prerequisite courses (EDUC 111, EDUC 112, and EDUC 215). A cumulative GPA of 3.0 is required thereafter.


## Master of Business Administration

The objective of the MBA is that students will learn in an intense accelerated cohort-based experiential residential learning environment. They will focus on the idea of measuring performance with a balanced scorecard that includes both shareholder and other stakeholder perspectives in constructing metrics that include traditional measures of financial and operational achievement coupled with nontraditional measures that incorporate ethics, corporate social responsibility and sustainability. They will apply knowledge garnered from cutting-edge courses taught by faculty whose expertise extends beyond academia into world-class business experience. Students will have the opportunity to learn by doing, giving them the experience employers' demand and the skills to be a successful entrepreneur.

A student who graduates from Thiel College with a master of business administration will:

- employ entrepreneurial thinking to create innovative new ways of achieving objectives.
- identify, assess, and resolve ethical dilemmas in dynamic business environments.
- use the balance scorecard approach in solving complex business problems. Think critically to evaluate a situation, identify the problem, collect, manage, and analyze data, generate and weigh alternatives to select executable and sustainable solutions that satisfy multiple stakeholders.
- present business knowledge and decisions individually and as a team in both oral and written formats.
- effectively lead and motivate individuals and teams to achieve business objectives.


## M.B.A. Requirements

| MBA 510 | Organizational Leadership | 3 CH |
| :--- | :--- | :--- |
| MBA 590 | Foundations of Management | 3 CH |
| MBA 521 | Managerial Economics | 3 CH |
| MBA 542 | Talent Optimization | 3 CH |
| MBA 533 | Advanced Financial Reporting and Managerial Accounting | 3 CH |
| MBA 511 | Applied Statistics | 3 CH |
| MBA 554 | Foundations of Marketing | 3 CH |
| MBA 544 | Finance | 3 CH |
| MBA 564 | Ethics, Corporate Social Responsibility, \& Sustainability | 3 CH |
| MBA 580 | Introduction to Information Science | 3 CH |
| MBA 574 | Strategic Management | 3 CH |
| MBA 555 | Internship | 3 CH |

## Thiel College Physician Assistant Program

The Physician Assistant program at Thiel College features two distinct paths to earn a Master of Science in Physician Assistant Studies:

Pathway 1 - Highly motivated high school seniors can enroll in our accelerated five-year program. Students will earn a traditional four-year bachelor's degree in Health systems and continue at Thiel for a fifth year to complete the master's degree program. Please refer to the Health Systems major for additional information regarding the undergraduate degree.

Pathway 2 - Students who have already completed a Bachelor of Arts or Bachelor of Science degree and wish to attain a Master of Science in Physician Assistant Studies from Thiel College should explore our 27-month postbaccalaureate program.

## Pathway 1 - Undergraduate Curriculum

Note: Subject to change
*Denotes Pathway 1 Pre-requisite courses

## Undergraduate Fall Semester 1

| Course Name |  | Credits |
| :--- | :--- | :--- |
| MATH 142 | Pre-Calculus | 3 |
| *BIO 145 | Foundations of Biology | 4 |
| *CHEM 140 | General Chemistry I | 4 |
| SEMS 110 | Intro Seminar Series (DHI: HONS 109) | 3 |
| *ENGL 101 | College Writing (DHI: HONS 113) | 3 |
|  | Total Credits: Fall Undergraduate Semester 1 | 17 |
| dergraduate Spring Semester 1 |  |  |
| Course Name |  | 4 |
| *BIO 212 | Microbiology | 4 |
|  | Humanities Course (DHI: HONS 114) | 3 |
| *CHEM 160 | General Chemistry II | 4 |
| INDS 101 | Presentational Literacy (DHI: HONS 128) | 3 |
| *117 | Medical Terminology | 3 |

## Undergraduate Fall Semester 2

| Course Name |  | Credits |
| :--- | :--- | :--- |
| *BIO 280 | Anatomy \& Physiology I | 4 |
| *CHEM 200 | Organic Chemistry I | 4 |
| *BIO 290 | Cell Biology | 4 |
|  | Creative Core (DHI: HONS 126) | 3 |
| *PSY | General Psychology (DHI: HONS 250) | 3 |
|  | Total Credits: Fall Undergraduate Semester 2 | $\mathbf{1 8}$ |

## Undergraduate Spring Semester 2

| Course Name |  | Credits |
| :--- | :--- | :--- |
| *BIO 281 | Anatomy \& Physiology II | 4 |
| *CHEM 210 | Organic Chemistry II | 4 |
| REL 12X | Religion Course (DHI: PSY 150) | 3 |
| SEMS 250 | World Cultures (DHI: HONS 330) | 3 |
| *NSCI 202 | Intro to Neuroscience | 4 |
|  | Total Credits: Spring Undergraduate Semester 2 | $\mathbf{1 8}$ |

## Undergraduate Fall Semester 3

| Course Name |  | Credits |
| :--- | :--- | :---: |
| *CHEM 345 | Biochemistry I | 4 |
| *BIO 350 | Principles of Immunology | 3 |
| *PSY 215 or SOC <br> 233 | Stats for the Social Sciences | 3 |
| AH 105 | Taking Care of Your Health | 2 |
| NSCI 3xx | Neuroscience Course OR Elective (if taking NSCI 3xx in <br> Spring Year 3) | 3 |

## Total Credits: Fall Undergraduate Semester 3 18

## Undergraduate Spring Semester 3

| Course Name |  | Credits |
| :--- | :--- | :--- |
| PSY 241 | Abnormal Behavior | 3 |
| PSY 255 | Lifespan Development | 3 |
| SEMS 400 | Global Issues (DHI: HONS 340) | 3 |
| *PHIL 387 | Medical Ethics | 3 |
| NSCI 3x0 | Neuroscience Course or ELECTIVE (if taking NSCI 3xx in Fall <br> Year 3) | 3 |
| SPAN 151 | Intro to Spanish Communication II (or ELECTIVE if lang. <br> requirement met) | 3 |
|  | Total Credits: Spring Undergraduate Semester 3 | $\mathbf{1 8}$ |

## Thiel College Physician Assistant Program

The Physician Assistant program at Thiel College features two distinct paths to earn a Master of Science in Physician Assistant Studies:

Pathway 1 - Highly motivated high school seniors can enroll in our accelerated five-year program. Students will earn a traditional four-year bachelor's degree in Health systems and continue at Thiel for a fifth year to complete the master's degree program. Please refer to the Health systems major for additional information regarding the undergraduate degree.

Pathway 2 - Students who have already completed a Bachelor of Arts or Bachelor of Science degree and wish to attain a Master of Science in Physician Assistant Studies from Thiel College should explore our 27-month postbaccalaureate program.

## Pathway 2 - Graduate (Accredited) Curriculum

Summer 1 (note: this is an 8 -week semester)

|  | Course Name | Credits |
| :--- | :--- | :--- |
| PA 501 | Medical Science I | 2 |
| PA 504 | Principles of Medicine I | 3 |
| PA 507 | Pharmacology I | 1 |
| PA 510 | Patient Assessment \& Clinical Reasoning I | 2 |
| PA 514 | Professional Practice | 1 |
|  | Total Credits: Summer Semester $\mathbf{1}$ | $\mathbf{9}$ |

## Fall Semester 1

|  | Course Name | Credits |
| :--- | :--- | :--- |
| PA 502 | Medical Science II | 3 |
| PA 505 | Principles of Medicine II | 5 |
| PA 508 | Pharmacology III | 2 |
| PA 511 | Patient Assessment \& Clinical Reasoning II | 3 |
| PA 512 | Diagnostic Medicine I | 3 |
| PA 515 | Infectious Disease/Clinical Microbiology | 2 |

## Spring Semester 1

|  | Course Name | Credits |
| :--- | :--- | :--- |
| PA 503 | Medical Science III | 3 |
| PA 506 | Principles of Medicine III | 5 |
| PA 509 | Pharmacology III | 2 |
| PA 513 | Diagnostic Medicine II | 2 |
| PA 516 | Evidence Based Medicine \& Public Health | 3 |
| PA 517 | Behavioral/Mental Health Medicine | 2 |
| PA 521 | Clinical Skills \& Procedures I | 2 |
|  | Total Credits: Spring Semester 1 | $\mathbf{1 9}$ |

## Summer Semester 2

|  | Course Name | Credits |
| :--- | :--- | :--- |
| PA 522 | Clinical Skills \& Procedures II | 2 |
| SPAN 523 | Medical Spanish | 2 |
| PA 524 | Healthcare Delivery | 2 |
| PA 525 | Clinical Medicine across the Lifespan | 4 |
| PA 526 | Surgery and Emergency Medicine | $\mathbf{2}$ |
| PA 527 | Clinical Practicum | $\mathbf{2}$ |
|  | Total Credits: Summer Semester 2 | $\mathbf{1 4}$ |

## Fall Semester 2

|  | Course Name | Credits |
| :--- | :--- | :--- |
| PA 528 | Professional Development I | 1 |
| PA 531 | Clinical Clerkships I (Rotations 1, 2 \& 3) | 15 |
|  | Total Credits: Fall Semester 2 | $\mathbf{1 6}$ |

## Spring Semester 2

|  | Course Name | Credits |
| :--- | :--- | :--- |
| PA 529 | Professional Development II | 1 |
| PA 532 | Clinical Clerkships II (Rotations 4, 5 \& 6) | 15 |
|  | Total Credits: Spring Semester 2 | $\mathbf{1 6}$ |

## Summer Semester 3

|  | Course Name | Credits |
| :--- | :--- | :--- |
| PA 530 | Professional Development III | 1 |
| PA 533 | Clinical Clerkships III (Rotations 7, 8, \& 9) | 15 |
|  | Total Credits: Summer Semester 3 | $\mathbf{1 6}$ |

## Clinical Mental Health Counseling

## Master of Arts

## Graduate Fall Semester 1

| COUN 500 | Orientation to Professional Counseling | 3 CH |
| :--- | :--- | :--- |
| COUN 510 | Counseling \& Personality Theory | 3 CH |
| COUN 520 | Counseling Strategies \& Techniques | 2 CH |
| COUN 525 | Counseling Skills Lab | 1 CH |
| COUN 530 | Human Development Over the Lifespan | 3 CH |

## Graduate Spring Semester 1

Winter Session of Spring Term:

| COUN 540 | Group Dynamics Theory | 2 CH |
| :--- | :--- | :--- |
| Spring: |  |  |


| COUN 545 | Group Dynamics Lab | 1 CH |
| :--- | :--- | :--- |
| COUN 550 | Career Development \& Counseling | 3 CH |
| COUN 560 | Research Methods | 3 CH |
| COUN 570 | Multicultural \& Social Justice Issues | 3 CH |
| COUN 590 | Crisis \& Disaster Counseling | $2 \mathbf{C H}$ |
|  | TOTAL | $\mathbf{1 4 ~ C H}$ |

## Graduate Summer Semester 1

| COUN 580 | Assessment in Counseling | 3 CH |
| :--- | :--- | :--- |
| COUN 600 | Family \& Couples Counseling | 3 CH |
| COUN 610 | Child \& Adolescent Counseling | 3 CH |


| COUN 620 | Diagnosis \& Treatment Planning | 3 CH |
| :--- | :--- | :--- |
| COUN 660 | Advanced Topics Elective | 1 CH |
| COUN 670 | Seminar in Counseling | 2 CH |
| COUN 675 | Comprehensive Exam | 0 CH |
| COUN 680 | Clinical Practicum | 3 CH |

TOTAL 9 CH

## Graduate Spring Semester 2

Winter Session of Spring Term:

| COUN 630 | Mental Health Counseling | 2 CH |
| :--- | :--- | :--- |
| COUN 660 | Advanced Topics Elective | 1 CH |
| Spring: |  |  |
| COUN 660 | Advanced Topics Elective | 1 CH |
| COUN 690 | Clinical Internship | 6 CH |

TOTAL 10 CH

Graduate Summer Semester 2

| COUN 640 | Addictions Counseling | 3 CH |
| :--- | :--- | ---: |
| COUN 650 | Social Justice Counseling | 3 CH |
|  |  | TOTAL $\mathbf{6 C H}$ |

# Master of Arts in Communication and Leadership 

Dr. Jared Hanneman, Program Director<br>Dr. George Branch-Trevathan, Dr. David Buck, Dr. Mary Theresa Hall, Dr. Lana Kulik, Dr. Michael McKinney, Dr. Matthew Morgan, Richard Orr, Dr. Cynthia Sutton, Dr. Susan Traverso, Gary J. Witosky

The Master of Arts in Communication and Leadership provides students support and guidance to develop advanced communication skills, embedded in a broad understanding of leadership. Coursework will facilitate assessment of leadership strategies and cultivate a variety of communication skills and methods so that graduates will become leaders in their own fields, flourishing in a variety of contexts.

The mission of the Master of Arts in Communication and Leadership is to ensure that graduates have developed the advanced communication skills necessary to be effective leaders. Students will not only be prepared for work, but for careers and lives of meaning and purpose.

The program is designed to intentionally integrate student learning and experience across individual courses. Each semester is designed so that students take two courses at a time of 7 weeks in length. During the fall and spring terms, they take a total of four courses over the 14 -week semester. The total time to degree is 11 months (JulyMay).


#### Abstract

To support students in developing lives and careers of meaning and purpose, the program will embed cocurricular activities designed to help students discern their vocation and find their approach to leadership. Students will keep a professional portfolio of their work for the duration of the program. The faculty will evaluate the students' portfolio as part of the program assessment.


The Master of Arts in Communication and Leadership program will:

- Produce advanced communicators who exhibit knowledge of leadership.
- Provide experiential learning opportunities for students to be able to communicate effectively across a variety of skills, including literacy in written and oral communication and financial and statistical literacy.
- Provide interdisciplinary engagement of students linking humanistic based inquiry with professional development.
- Provide an opportunity for students from a range of majors, from the arts and sciences and other professional fields, to hone and develop their communication and leadership skills.
- Create opportunities for students to articulate and connect personal leadership development with professional leadership practices.
- Build a diverse and inclusive learning environment which will encourage students to build and lead diverse inclusive communities.


## Student Learning Outcomes

Upon completion of the program the student will be able to:

1. Communicate their ideas effectively and professionally through advanced oral communication, the written word, and a variety of media.
2. Use various communication tools, platforms, strategies, and technology strategically.
3. Demonstrate financial and statistical literacies to advance communication and leadership.
4. Develop particular leadership practices that are based on the ability to describe and assess well-informed values.
5. Demonstrate cross-cultural knowledge to effectively communicate with and lead diverse workplace communities.
6. Analyze leadership theories from psychological, sociological, humanistic, and communicative perspectives.

Students are required to have a 3.2 cumulative GPA from an accredited college or university and earned a baccalaureate degree.

## Courses

| LEAD 510 | Effective Organizational Leadership | 3 CH |
| :--- | :--- | :--- |
| LEAD 515 | Leadership Theory \& Approaches | 3 CH |
| LEAD 520 | Professional Communication | 3 CH |
| LEAD 525 | Leading Transformational Change | 3 CH |
| LEAD 530 | Strategic Planning \& Policy | 3 CH |
| LEAD 533 | Data and Finance for Leadership | 3 CH |
| LEAD 535 | Applied Leadership Research | 3 CH |
| LEAD 540 | Communicating Effectively Across Differences \& Creating | 3 CH |
| Inclusivity | 3 CH |  |
| LEAD 545 550 | Content Creation \& Strategy | 3 CH |
| LEAD 555 | Crisis Communication for Today's Global Challenges | 3 CH |
| LEAD 564 | Communicating Leadership Capstone | 3 CH |

# Master of Science in Speech-Language Pathology (MSSLP) 

Dr. Mary Beth Mason, CCC-SLP, MS-SLP Program Director/Department Chair; Dr. Jeanette E. Benigas, CCC-SLP; Dr.Nicole Billak, CCC-SLP; Linda Collins, CCC-SLP; Julie Kobak, Director of Clinical Education; Dr.Neil Lax; Dr. Laura Pickens; Cassandra Shearer, CCC-SLP

The Master of Science in Speech-Language Pathology Program (MS-SLP) at Thiel College serves to prepare students to enter the workforce as speech-language pathologists. The program includes requirements needed for certification and licensure. Students will have a combination of academic coursework focusing on professional issues and disorders across the speech-language pathology scope of practice, lifespan, and diverse populations. Students will complete four clinical practicum experiences including two rotations at the Thiel College Center for Speech-Language Services, an externship in an educational setting, and an externship in a medical setting.

A student who graduates from Thiel College with an MS-SLP will be able to:

1. demonstrate understanding and competency of the foundations of SLP practices for entry into the profession
2. demonstrate understanding and competency of evidenced-based assessment principles across SLP scope of practice, lifespan, and diverse populations
3. demonstrate understanding and competency of evidence-based treatment principles across SLP scope of practice, lifespan, and diverse populations
4. demonstrate adequate oral and written communication for entry into the profession
5. demonstrate the ability to be critical consumers of research for entry into the profession

The MS-SLP Program has the following objectives:

1. to graduate speech-language pathology professionals who have the disciplinary knowledge and skills to provide entry-level services to diverse clienteles and to meet the needs of their community;
2. to graduate speech-language pathology professionals who have the clinical preparation and dispositions to provide entry-level services to diverse clienteles and to meet the needs of their community; and
3. to graduate speech-language pathology professionals who meet the requirements for certification and licensure.

Master of Science in Speech-Language Pathology: The MS-SLP may be satisfied by completing 54 graduate CSD credits. Students must pass all academic coursework with a grade of $C$ or higher and satisfactorily complete all four clinical practicums with a total minimum of 25 observations hours and 375 clinical practicum hours.

## Sequence of Courses

Semester I (Summer I)<br>CSD 500 Neuropathology of Communication Disorders with Lab<br>CSD 510 Research Methods in Communication Sciences and Disorders with Lab<br>CSD 511 Speech Sound Disorders with Lab<br>CSD 512 Language-Based Communication Disorders in Children with Lab<br>CSD 515 Clinical Practice I

## Semester 2 (Fall)

CSD 521 Fluency Disorders with Lab
CSD 522 Aphasia and Cognitive-Communicative Disorders in Adults with Lab
CSD 531 Motor Speech Disorders with Lab
CSD 541 Dysphagia with Lab
CSD 550 Professional Practicum (1 credit)
CSD 580 Capstone in Speech-Language Pathology (1 credit)
CSD 525 Clinical Practice II

## Semester 3 (Spring)

CSD 551 Voice Disorders with Lab
CSD 570 Augmentative and Alternative Communication with Lab
CSD 550 Professional Practicum (1 credit)
CSD 580 Capstone in Speech-Language Pathology (1 credit)
CSD 555 Externship I, Pediatric-Focused

## Semester 4 (Summer II)

CSD 550 Professional Practicum (1 credit)
CSD 580 Capstone in Speech-Language Pathology
CSD 565 Externship II, Adult-Focused
Courses in Summer I and Fall are on-campus with classes being face-to-face. Courses in Spring and Summer II are synchronous online in evening with a residential week (on-campus) at end of each semester for hands-on training/labs, presentations, and final examinations. This allows students to complete their full-time externships across the United States.

## Required Undergraduate Prerequisites:

Acoustical Phonetics
Nature and Development of Language
Anatomy and Physiology of the Vocal Mechanism
Audiology/Aural Rehabilitation, 6 credits
Speech and Hearing Science
Human Biology
Physics or Chemistry
Statistics
Social Science
25 Observation Hours


[^0]:    Any two courses in Psychology or Sociology, chosen in consultation with one's advisor. One Philosophy course, Business or Accounting course, or INDS 202 (Introduction to Women's and Gender Studies).

