

Criminal Justice

Contact Person: Robert J. Phillips, Ph.D.

Wheeling Jesuit's Criminal Justice major prepares you for entrance to a broad range of careers that demand effective writing, speaking and critical thinking skills. This major offers a solid, rigorous course of instruction in criminal justice that will allow you to successfully compete after graduation, whether you decide to pursue graduate school, law school, or employment opportunities.

Upon completion of the Criminal Justice program, students will be able to demonstrate the ability to:

1. Exhibit familiarity with basic concepts, such as justice, crime and criminality.
2. Explain the operations of the Criminal Justice System and how the various subsystems are interrelated.
3. Explain the theoretical underpinnings of crime, victimization and punishment.
4. Understand, as both consumers and producers, the intricacies of the research process, as well as being able to design and implement a research project.
5. Successfully complete a practical field experience with a Criminal Justice or related agency.

Requirements for Criminal Justice Major Bachelor of Arts Degree

Criminal Justice majors must complete the following social science core, in addition to completing core curriculum requirements:

POS 110	American Political Process	(3 crs)
INS 111	World Community	(3 crs)
SSC 327	Research Methods	(3 crs)
SSC 415	Statistical Analysis	(3 crs)
SSC 488	Senior Thesis	(3 crs)
SSC 489	Senior Seminar	(3 crs)
		<u>(18 crs)</u>

In addition to completing the core curriculum and social science core requirements (including senior thesis and seminar and the comprehensive oral examination in SSC 488, 489), all criminal justice majors must complete the following courses:

CRJ 111	Survey of Criminology	(3 crs)
CRJ 112	Introduction to the Criminal Justice System	(3 crs)
CRJ 325	Theoretical Criminology	(3 crs)
CRJ 410	Ethical and Philosophic Issues in Criminal Justice	(3 crs)
CRJ 473	Internship	(3 crs)
	Five (5) Approved Electives	<u>(15 crs)</u>
		<u>(30 crs)</u>

Special Note on Elective

The criminal justice elective must be approved by the Department Contact Person. The following are recommended: CRJ 212 Criminal

CRIMINAL JUSTICE - Recommended Course Sequence

	Freshman		Sophomore		Junior		Senior	
FALL	FYS 101	1	RST 106/107	3	RST Core	3	SSC 415, 488	6
	MOL Core	3	POS 110	3	SCI Core	3	CRJ 473	3
	CRJ 111	3	CRJ Elective	3	CRJ 325	3	CRJ 410	3
	ENG 105 or 110	3	PHI 105	3	PHI 205	3	Elective	3
	MAT105	3	LIT 250	3	CRJ Elective	3		
	HIS 110	3						
	Semester total	16		15		15		15
SPRING	HIS 120	3	CRJ Elective	3	SCI Core	3	Electives	9
	MOL Core	3	Global Persp.	3	RST/PHI 305	3	CRJ Elective	3
	CRJ 112	3	FAS 101	1	SSC 327	3	SSC 489	3
	LIT 120	3	Electives	9	CRJ Electives	3		
	INS 111	3			FAS 20x	2		
		Semester total	15		16		14	
	Total Credits	31		31		29		30 121

Law and Procedure; CRJ 215 Law Enforcement; CRJ 312 Juvenile Justice System; CRJ 318 Occupational Crime; CRJ 321 Corrections; CRJ 327 Comparative Systems of Justice and Social Control; CRJ 340 Issues in Criminal Justice; CRJ 421 Theories of Management and Administration in Criminal Justice Organizations. Other courses offered in the Social Science discipline may also satisfy this requirement including: POS 241 Public Policy, POS 242 State and Local Government, POS 329 Constitutional Law, and POS 330 Civil Rights and Civil Liberties.

Requirements for Criminal Justice Minor

Criminal justice minors must complete a) CRJ 111 Criminology; b) CRJ 112 Introduction to the Criminal Justice System; c) and four (4) approved criminal justice electives.

Special Note on Double Majors:

In addition to complying with University rules regarding double majors, students completing a double major between criminal justice and political science must either write two senior theses or an enhanced senior thesis with both criminological and political science content.

Course Descriptions

CRJ 111 Survey of Criminology (3 crs)

Looks at theoretical approaches to criminal behavior and the controversies arising from them. Modern criminal justice policies and the ideologies that lie behind them are applied to the problems of crime control and the sentencing of criminal offenders.

CRJ 112 Introduction to the Criminal Justice System (3 crs)

Surveys patterns of crime and the processes of the American justice system. Crime, law enforcement, judicial process and corrections are examined from political, sociological and psychological perspectives.

CRJ 212 Criminal Law and Procedure (3 crs)

The basic principles of substantive criminal law are illustrated through analysis of cases. Topics include the elements of crimes against persons and property, the fundamentals of criminal liability and justifications and excuses such as self-defense and insanity. Problems of advocacy at both trial and appellate levels are also explored.

CRJ 215 Law Enforcement (3 crs)

Provides a social science perspective on the training and socialization of police, police corruption, police-community relations and the pressures of police work. The fundamentals of criminal procedure are also covered, including arrest, search and seizure and the use of deadly force. Prerequisite: CRJ 111, 112.

CRJ 220 Cyber Crime (3 crs)

Cyber crime traces technological advances and the adaptation by the criminal element for illegal activities. The student will learn about the difficulties in investigating and tracking the cyber criminal, as well as the complex jurisdiction and legal issues facing the prosecution of a cyber crime. Examples will be explored of unauthorized access into a private computer or information system by hackers, crackers, business competitors and foreign agents traveling on the "Information Highway."

CRJ 225 Crime and the Media (3 crs)

This course will analyze images of crime and criminal justice as portrayed and presented by the mass media. The focus will primarily be on crime in movies, television and news/newspaper coverage; more specifically, how the media portrays society's struggle with the crime problem. A major theme of the course is whether media interpretations of crime, which are acknowledged by the public to be accurate, make it more complicated for a true explanation of crime to be understood. Prerequisite: CRJ 111, 112.

CRJ 312 The Juvenile Justice System (3 crs)

Analyzes theories of the causes of juvenile crime and the processes of the juvenile justice system, including a critical look at juvenile correctional policies. Prerequisite: CRJ 111, 112.

CRJ 317 Survey of Court Operation & Organization (3 crs)

The course begins with an examination of the structure of courts and how they are administered. Other areas of focus include pretrial procedures, the roles of the prosecutor, the defense, the judge, the sentencing process and the appeal process.

CRJ 318 Occupational Crime (3 crs)

Examination of conduct in violation of the law that is committed through opportunities created in the course of a legal occupation. Methods for counting and regarding occupational crimes and criminals. Theories and explanations of these behaviors. Sanctioning and social control of occupational crime.

CRJ 321 Corrections (3 crs)

Examines American correctional policies and their historical development. Provides a close look at both community-based and institutional corrections, as well as the processes of probation and parole and the legal rights of prisoners. Prerequisite: CRJ 111, 112.

CRJ 325 Theoretical Criminology (3 crs)

This course examines the meaning of criminal behavior and the different sociological and psychological explanations of criminal behavior. In addition, the student will learn how to critically evaluate theory and its relevance for policy implementation. Prerequisites: CRJ 111, 112.

CRJ 327 Comparative Systems of Justice and Social Control (3 crs)

Introduction to the concepts of justice, law, deviance and social control. Examination of informal and formal systems of justice and social control, including traditional systems, common law, civil law, Marxist law and Islamic law.

CRJ 330 Civil Rights & Civil Liberties (3 crs)

A comparison course to Constitutional Law (POS 329), this course analyzes Bill of Rights guarantees of individual freedom, due process and equal protection interpretations, as well as modern policies flowing from civil rights legislation in areas affecting employment, education and welfare benefits.

CRJ 340 Issues in Criminal Justice (3 crs)

Analysis of specific topics, depending on student interest and current importance; examples include the international war on drugs, causes and effects of domestic violence. Prerequisite: CRJ 111, 112.

CRJ 410 Ethical & Philosophic Issues in Criminal Justice (3 crs)

Examination of selected ethical and philosophic issues currently facing the field of criminology and criminal justice. Issues will be drawn from categories, such as the function of law, the development of moral behavior, individual versus societal rights, ethics and the application of the law within the justice system. Prerequisites: CRJ 111, 112.

CRJ 421 Theories of Management and Administration in Criminal Justice Organizations (3 crs)

Focus on the complex theories and related issues of management and administration within the criminal justice system. Problems of communication, motivation, leadership, organizational effectiveness and innovation. Prerequisites: CRJ 111, 112.

CRJ 473 Internship (variable cr)

A field experience course in which the student is actively involved in the community under the direction of the Social Science Faculty. Enrollment requires the approval of the departmental contact person; a member meets periodically with the student during the internship to examine the relationships between the theoretical concepts found in the assigned readings and the field experience. The number of credits is negotiable.

Economics

(See description of Economics courses in the Business and Technology section, p. 37)

Education

(See description of Teacher Preparation courses in section for Teacher Preparation, p. 96)

Engineering

Wheeling Jesuit University engineering programs offer students the best of two worlds: liberal arts and technology. In contemporary society, engineers are expected to be professionally competent; they must also be aware of the ethical dimension of their work and its impact on the quality of human life. Moreover, those aspiring to management positions will need to be articulate and precise in spoken and written communication. The combination of a strong scientific background with a liberal arts core gives Wheeling students and graduates a competitive edge for career advancement.

Cooperative Engineering Programs

Peter D. Ehni, Ph.D. (Coordinator)

Case Western Reserve University. Under a combined 3-2 course plan, students spend three years at Wheeling Jesuit University, receiving a strong background in the basic physics and mathematics which underlie all of engineering. They also prepare for an engineering spe-

cialty in areas which include mechanical engineering, biomedical engineering and computer engineering. At the same time, the student learns in the context of the liberal arts tradition and completes the Wheeling Jesuit University core curriculum. During the fourth and fifth year, he or she will complete engineering training at Case Western Reserve University. The student receives a bachelor of science degree in applied science from Wheeling Jesuit University and a bachelor of science in engineering degree from Case Western Reserve University.

Formal affiliation also exists with the University of Detroit Mercy whereby a student completes two years of study at Wheeling Jesuit University and transfers to this institution for the final years of engineering training. Only the Detroit Mercy degree is given. Transfer to other engineering schools is also possible.

English, Professional Communications and Fine Arts

Contact Persons: Bryan Berry, Ph.D.

Joseph Brumble, Ph.D.

Irene Burgess, Ph.D., (Chair)

Richard Cain

Marlene Sebeck

Daniel Shea

Kathryn Voorhees, Ph.D.

In support of the overall mission of Wheeling Jesuit University, the Department of English, Professional Communications and Fine Arts provides courses in composition, literature and communications, as well as advanced electives for both majors and non-majors. As an integral part of the liberal arts tradition embraced by the University, the department's curricula develop students' skills in effective reading, writing and speaking, and awaken students' knowledge of the rich expressive and aesthetic potential of the English language.

English and Professional Communications offers major and minor programs in the following fields:

1. English
2. Professional Communications

In addition, the department also houses the Fine Arts program, including art, music and theater.

AP Placement Equivalencies

The department grants credit for AP scores of 3 or above with the following conditions:

Language & Composition: If the student with an AP score of 3 or above is placed into ENG 110 Composition Seminar (Advanced Composition placement) that student receives equivalency credit for the composition requirement of the core curriculum. If the student with an AP score of 3 or above is placed into ENG 105 Process of Composition, the student has two options: (1) the student may submit

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to the department contact person a portfolio of previous written work that displays the student's writing abilities. Based upon the department's assessment of the portfolio, the student may be awarded equivalency credit for the composition requirement of the core curriculum: (2). If the student has submitted a portfolio that does not merit equivalency credit, the student will receive 3 elective credits but must still complete the composition requirement, or the student may take ENG 105 Process of Composition and receive 3 elective credits.

English Literature and Composition: The student who receives a score of 3 or above must sit for the department's literary genre exam, given every October. If the student passes the exam, he or she receives equivalency credit for LIT 120 Literary Foundations: Methods & Genres, the first level of the literature core curriculum. If the student does not pass the exam, he or she receives 3 elective credits toward graduation but must still complete Literary Foundations.

Core Fulfilling Courses

Composition and Literature

Note: Core work in English is progressive; courses, therefore, must be taken in sequence, Composition Level first, then Level I and Level II of the Literature core. Students whose entering skill levels result in placement in ENG 095 (College Writing) and/or ENG 096 (College Reading) should enroll in those classes immediately. Each class is a prerequisite for further courses within the English core: ENG 095 must be completed prior to enrollment in ENG 105 (Process of Composition) and ENG 096 must be completed prior to enrollment in LIT 120 Literary Foundations: Methods & Genres.

- I. Composition Level: ENG 105 Process of Composition, ENG 110 Composition Seminar
- II. Literature Level I: LIT 120 Literary Foundations: Methods & Genres
- III. Literature Level II: LIT 250 Literary Explorations: Conflicts & Culture

Fine Arts

The Fine Arts core curriculum program is built around three fine arts credits that a student must complete before graduation.

Requirements for English Major Bachelor of Arts Degree

In addition to completing the core curriculum requirements all English majors must complete the following courses:

Required courses:

ENG 220	Advanced Writing Techniques	(3 crs)
ENG 224	Professional Speaking	(3 crs)
LIT 321	Studies in Poetry	(3 crs)
LIT 322	Studies in Drama	(3 crs)
LIT 323	Studies in Fiction	(3 crs)
LIT 325	Applied Literary Theory	(3 crs)
LIT 386	Junior Literature Seminar	(3 crs)
LIT 486	Senior Literature Thesis	(2 crs)
PWR 135	Communicating in the 21st Century	(3 crs)
PWR xxx	any other PWR elective	(3 crs)

ENGLISH - Recommended Course Sequence

	Freshman		Sophomore		Junior		Senior	
FALL	ENG 105 or 110	3	LIT 250	3	LIT 322	3	LIT 486	2
	PWR 135	3	ENG 220	3	LIT Elective	3	LIT 325	3
	FYS 101	1	SSC Core	3	LIT 386	3	LIT Elective	3
	HIS 110	3	RST Core	3	Global Persp.	3	Elective	6
	MAT Core	3	Science	3	PHI 205	3		
	MOL	3						
	Semester total	16		15		15		14
SPRING	LIT 120	3	ENG 224	3	LIT 323	3	LIT Elective	3
	HIS 120	3	LIT 321	3	LIT Electives	6	Electives	12
	MOL	3	PWR Elective	3	Science	3		
	RST 106/107	3	FAS	3	PHI 305	3		
	PHI 105	3	Science	3				
		Semester total	15		15		15	
	Total Credits	31		30		30		29 120

English majors must also earn **an additional 15 credits** from literature electives above the 300 level, selected to fulfill the following criteria: 1 elective course from each of the following main areas: the period prior to the 18th Century; the 18th Century; the 19th Century; the 20th Century; 1 unrestricted elective.

Students will still retain a significant number of credits for elective course work beyond the core and the major requirements. Majors are encouraged to seek a cognate or minor field of study outside the area, chosen in preparation for career goals, graduate school, or further professional training. Some cognate areas include psychology, political science, women's studies and professional communications.

N.B.: English majors who are also enrolled in the Teacher Preparation Program must begin major course work no later than the sophomore year in order to complete the major program and allow for student teaching in the senior year.

Requirements for English Minor

In addition to completion of the University's core curriculum requirements in this discipline, a student must complete any 18 credits of course work in literature, to include ENG 220 Advanced Writing Techniques.

Course Descriptions

ENGLISH

The English major is designed to introduce students to works of the British, American and World literary imaginations, to develop skills in analytical perception and to foster clear thinking and accurate communication of ideas. Students are thus prepared for a wide range of careers in private and public sectors as well as for further study in graduate school, law school or in other professional programs.

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

1. demonstrate accurate and effective reading, writing and critical thinking skills;
2. recognize and interpret metaphorical thought as well as an aesthetic use of language;
3. pursue a life-long passion for reading and the expressive arts

ENG 095 College Writing (3 crs)

Review of basic writing skills, stressing the elements of clear and effective writing. By placement; does not satisfy core curriculum requirement.

ENG/LIT 096 College Reading (3 crs)

Development of greater efficiency, comprehension, vocabulary and recall in reading college-level material. Lab work required. Enrollment by placement; does not satisfy core curriculum requirement.

ENG 104 Composition Tutorial (1 cr)

A three hour per week tutorial for international students co-enrolled in ENG 105: Process of Composition.

ENG 105 Process of Composition (3 crs)

Elements of expository and persuasive essay writing; research techniques; revising prose for accuracy, precision and effective style. Core fulfilling. By placement.

ENG 110 Composition Seminar (3 crs)

Advanced essay writing; exposition and persuasion; research techniques; editing and revising prose for accuracy, precision and effective style for first-level writers. Core fulfilling. By placement.

ENG 220 Advanced Writing Techniques (3 crs)

Expands upon writing skills learned in core course work conducted in computer workshop environment. Frequent and varied writing activities fostering increased mastery of organizational and expressive skills and understanding the role of technology in writing. Emphasis on revision and editing strategies, rhetorical approaches, critical readings and audience adaptation with an aim toward increased eloquence. Prerequisites: ENG 105/110; sophomore standing.

ENG 224 Professional Speaking (3 crs)

Practice in preparing and presenting instructional, informative, persuasive and public relations speeches of a professional nature. Includes use of multi-media tools. Prerequisites: ENG 105/110; sophomore standing.

LIT 120 Literary Foundations: Methods & Genres (3 crs)

Study and development of the techniques of literary study using the genres of fiction, poetry and drama. Includes experience in the application of literary critical methods. Prerequisite: ENG 096; ENG 105/110.

LIT 250 Literary Explorations: Conflicts & Culture (3 crs)

Examination of selected topics within literary studies, using the tools of literary analysis established in LIT 120. Course topics fit within the organizing rubric of: Community and Discord in Literature; Ethics and Values in Literature; Past and Future in Literature. Prerequisite: ENG 105/110; ENG 120.

LIT/WST 310 Women and Early Literature (3 crs)

Study of women's contribution to literature from the Classical Period through the 18th Century. Addresses major issues and themes that concern women; examines how individual female authors confronted the prevailing literary and social attitudes of their times. Prerequisite: completed literature core.

LIT/WST 312 Women and Modern Literature (3 crs)

Study of women's contribution to literature from the 19th Century to the present day. Addresses major issues and themes that concern women; examines how individual female authors confronted the prevailing literary and social attitudes of their times. Prerequisite: completed literature core.

LIT 321 Studies in Poetry (3 crs)

Study of significant works by a variety of writers; some emphasis on context of writing and works as well as methodology and development of poetry. Prerequisite: completed literature core.

LIT 322 Studies in Drama (3 crs)

Study of significant plays from the early Greek to the contemporary stage, together with emphasis on tradition and innovation in dramatic technique. Prerequisite: completed literature core.

LIT 323 Studies in Fiction (3 crs)

Study of significant works by a variety of writers, including the development of the novel/novella/short story as genres, their narrative techniques and variety. Prerequisite: completed literature core.

LIT 325 Applied Literary Theory (3 crs)

Exploration, through analysis of literary works, of the relative effectiveness of selected literary theories. Includes reader-response, sociological, psychoanalytical and other criticisms. Prerequisite: completed literature core.

LIT 354 Shakespeare (3 crs)

Intense study of selected poems and plays, including tragedies, comedies and histories. Exploration of the dramatic, literary and cultural dimensions of Shakespeare's art. Prerequisite: completed literature core.

LIT 386 Junior Literature Seminar (3 crs)

Intensive examination and discussion of a specific literary topic, author, or mode; research and formal writings, oral presentations on assigned topics. Prerequisite: completed literature core; junior standing or approval of department chair.

LIT 410 World Literature from Antiquity through the Renaissance (3 crs)

Study of major works of world literature, with attention to the development of literary genres. Selected excerpts will be chosen from among Gilgamesh, Iliad, Oedipus the King, Medea, Mahabharata, Aeneid, Metamorphoses, Song of Roland, Tale of Genji, Divine Comedy, Decameron, Thousand and One Nights, Sir Gawain and Don Quixote. In translation. Prerequisite: completed literature core.

LIT 411 Chaucer and the Medieval Period (3 crs)

Reading and study of *The Canterbury Tales* as well as selected works of other significant writers of the Medieval period such as Gower, De Pizan, Boethius, the Pearl Poet and Kempe. Prerequisite: completed literature core.

LIT 419 Literature of the English Renaissance (3 crs)

Context and works of selected literary figures such as Marvell, More, Marlowe, Sidney, Wroth, Lanier, Donne, Jonson and Milton. Prerequisite: completed literature core.

LIT 420 Early American Literature (3 crs)

Study of the historical context and writers of the Colonial and Revolutionary era of American literature. Authors may include Bradford, Bradstreet, Taylor, Sewall, Rowlandson, Crèvecoeur, Franklin, among others. Literary forms such as poetry, diaries, sermons and political pamphlets included. Prerequisite: completed literature core.

LIT 421 Restoration and Eighteenth-Century Literature in England (3 crs)

Study of novels (including the autobiographical, epistolary, experimental, sentimental, libertine and Gothic), narrative prose and poetry (including satire), plays and essays. Works selected from Dryden, Congreve, Swift, Defoe, Richardson, Fielding, Sterne and others. Prerequisite: completed literature core.

LIT 422 Eighteenth-Century World Literature (3 crs)

Study of major works of world literature in the European tradition, with attention to dominant international literary movements and historically representative sub-genres. Authors selected may include Prevost, Swift, Voltaire, Fielding, Rousseau, Goethe, Laclos, Lessing, Schiller, Diderot and others. In translation. Prerequisite: completed literature core.

LIT 423 The Romantic Movement in England (3 crs)

Extensive coverage of the poetry and critical works of representative Romantic figures, chosen from Blake, Baillie, the Wordsworths, Coleridge, Byron, the Shelleys, Hemans, Keats and others. Attention to the historical context, major themes, verse experimentation and critical theory from the era. Prerequisite: completed literature core.

LIT 424 Nineteenth-Century World Literature (3 crs)

Study of major works of world literature in the European tradition, with attention to dominant international literary movements and historically representative sub-genres. Authors selected may include Pushkin, Hoffmann, Gogol, Balzac, Flaubert, Galdos, Ibsen, Baudelaire, Dostoevsky, Tolstoy and Chekhov. In translation. Prerequisite: completed literature core.

LIT 425 Literature of the Victorian Period in England (3 crs)

Works of some of the chief literary artists of the era (selected from Tennyson, Carlyle, the Brontës, Arnold, the Brownings, Dickens, Eliot, Newman, Ruskin, Hardy, the Rossettis, Wilde and others) set within their milieu. Lyric poetry, the novel and the essay are stressed genres. Prerequisite: completed literature core.

LIT 426 Nineteenth-Century American Literature (3 crs)

Study of the literary figures and movements from the romanticism of Poe, Hawthorne and Melville through the realism and naturalism of Dickinson, Twain, Gilman, James, Wharton, Crane and Drieser. Prerequisite: completed literature core.

LIT 428 Twentieth-Century World Literature (3 crs)

Survey of dominant trends in world literature, with attention to the increasing diversity of literary methods and sub-genres. Authors selected may include Kafka, Pirandello, Mann, Rilke, Solzhenitsyn, Robbe-Grillet, Lorca, Brecht, Achebe, Soyinka, Kawabata, Borges, Marquez and Fuentes. In translation. Prerequisite: completed literature core.

LIT 429 Literature Between the Wars (3 crs)

Study of the historical context, major themes and critical theory of the Modern era in British and American literature including such authors as Yeats, Eliot, Joyce, Hemingway, Fitzgerald, Faulkner, Woolf, O'Neill, as well as authors who rejected the Modernist credo. Prerequisite: completed literature core.

LIT 430 Contemporary Literature (3 crs)

Study of interpretative literature produced from the 1960's to the present. In order to address the proliferation of voices and the blurring of genre lines characteristic of the contemporary period, the focus of the course on particular genres or authors will necessarily change from semester to semester. Prerequisite: completed literature core.

LIT 486 Senior Literature Thesis (2 cr)

A major project requiring extended research and writing. The project requires a written proposal, public presentation of the project's results and an acceptable written document at the conclusion of the course. All phases will be supervised and evaluated by a member of the literature faculty. Prerequisite: LIT 386.

FINE ARTS

FAS 101 Introduction to Fine Arts (1 cr) or

FAS 105 Fine Arts Exploration (3 crs)

The Fine Arts core curriculum program is built around three fine arts credits that a student must complete before graduation. Both Introduction to Fine Arts and Fine Arts Exploration explore the historical and sociological role of art within the human community as well as analyzing the aesthetic dimension of art. Coursework includes attendance at public performance/exhibitions.

FAS 250 Special Topics in Fine Arts (2 crs)

These studio courses, in conjunction with FAS 101, can fulfill the fine arts core requirement. See department contact person for current listings of fine arts electives. Prerequisite FAS 101 or FAS 105.

THEATER MINOR

The Theater Minor at WJU is offered in partnership with Towngate Theater of Oglebay Institute. To earn a theater minor a student must complete a minimum of 18 credits including:

FAS/LIT 122 Oral Interpretation (3 crs)

Study of prose, poetry and drama, including analysis and preparation for performance before an audience. Student selections are to be interpreted and produced. Public performance is required. Prerequisite: first level of the literature core.

FAS 211 Theater in Practice (3 crs)

Study of the basic components of theater production. Students will have the opportunity to direct, act and be involved with basic techniques of scenery and property construction, as well as lighting and the different technical aspects of stage management. No prerequisite.

FAS 321 Studies in Theater (3 crs)

Introduces students to theatrical history and practices and a deepening appreciation of theater as art. Required attendance at college, community and professional theater. No prerequisite.

LIT 322 Studies in Drama (3 crs)

Study of significant plays from the early Greek to the contemporary stage, together with emphasis on tradition and innovation in dramatic technique. Prerequisite: completed literature core.

See department contact person for current listing of theater electives.

Professional Communications

The professional communications major is designed to meet the needs of students who hope to pursue careers in which writing, speaking and a knowledge of the emerging communications technologies are essential. It is appropriate for students who want to work in journalism, public relations, advertising, multimedia, marketing, law, teaching, advocacy, technical communication and other careers. The major concentrates on three tracks: print (public relations and journalism), audio/video (broadcast, corporate video) and new media (web authoring and multimedia).

Upon completion of the Professional Communications major, students will demonstrate the ability to:

1. Identify and apply effective communications strategies across a range of topics;
2. Make an effective oral presentation;
3. Demonstrate reasoned and defensible techniques for reaching personal decisions regarding practical media ethical issues.

Requirements for Professional Communications Major Bachelor of Arts Degree

In addition to completing the core curriculum requirements, all professional communications majors must complete the following courses:

Communications component:

PWR 135	Communicating in the 21st Century	(3 crs)
PWR 226	Introduction to Visual Design & Desktop Publishing	(3 crs)
PWR 240	Writing for Media	(3 crs)

One of the following pairs of courses:

PWR 251/252	Reporting/Copyediting & Layout or	
PWR 253/254	Web Auth/Interface Design or	
PWR 255/256	Intro. to Video Production/Intermediate Video Production	(6 crs)
PWR 342	Media Ethics and Intellectual Property	(3 crs)
PWR 473	Fall Professional Communications Internship	(1 cr)
PWR 474	Spring Professional Communications Internship	(1 cr)
PWR 477	Fall Professional Communications Senior Seminar: writer's project & portfolio	(2 crs)
PWR 478	Spring Professional Communications Senior Seminar: presentation & portfolio	(2 crs)
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		(24 crs)

English/Literature component:

ENG 220	Advanced Writing Techniques	(3 crs)
ENG 224	Professional Speaking	(3 crs)
ENG 3xx or 4xx	One literature course beyond the core (LIT elective)	(3 crs)
		<hr style="width: 100%;"/>
	Subtotal:	(9 crs)

PWR Electives Choose a minimum of 4 courses but not more than 6

(45 crs)

Course Descriptions

Professional Communications Minor:

PWR 135	Communicating in the 21st Century	(3 crs)
PWR 220	Advanced Writing Techniques	(3 crs)
PWR 226	Introduction to Visual Design and Desktop Publishing	(3 crs)
PWR 240	Writing for Media	(3 crs)
PWR 251/252	Reporting/Copyediting & Layout or	
PWR 253/254	Web Auth/Interface Design or	
PWR 255/256	Intro. to Video Production/Intermediate Video Production	(6 crs)
PWR 342	Media Ethics and Intellectual Property	(3 crs)
PWR 473/474	Internship (optional) and at least one elective for a minimum of 24 credits	(1 cr)

Special Note for Professional Communications students: Because vocational hopes and vocational aptitudes do not always coincide, students are formally admitted to full standing as majors or minors **only** after specific skill-based conditions have been met. Students should consult the department contact person for departmental policies regarding formal admittance to professional communications programs.

PWR Core

PWR 135 Communicating in the 21st Century (3 crs)

Survey of essential concepts and skills for effective communication in media, business and personal life with emphasis on writing with the new computer technologies. Focus on using new communications technologies in ways that foster fuller development of the human person. This course assumes basic knowledge of computers and word processing. Students will produce a resume, simple Web site and a simple multimedia presentation for their portfolios. Required for English and Professional Communications majors and recommended for all who want to improve their computer literacy, media literacy, word processing, interpersonal communication and Internet skills. No prerequisite.

PWR 226 Introduction to Visual Design and Desktop Publishing (3 crs)

Fundamentals and techniques of visual design, typography and page layout using software such as QuarkXPress. Students will complete several portfolio projects useful for job applications in communications, graphics, marketing, management and training. Familiarity with computer, e-mail, wordprocessing and the Internet required.

PROFESSIONAL COMMUNICATIONS - Recommended Course Sequence

	Freshman		Sophomore		Junior		Senior	
FALL	PWR 135	3	ENG 220	3	PWR Elective	3	PWR 473	1
	FYS 101	1	PWR 251, 253 or 255	3	PWR 342	3	PWR 477	2
	HIS 110	3	LIT 250	3	RST 106/107	3	LIT Electives	3
	ENG 105/110	3	Elective	3	Science	3	Global Persp.	3
	MAT Core	3	PHI 105	3	LIT Elective (Core)	3	RST 305	3
	MOL	3	FAS 101	1			PWR Elective	3
	Semester total	16		16		15		15
SPRING	PWR 240	3	ENG 224	3	PWR Electives	6	PWR 474	1
	PWR 226	3	PWR 252, 254 or 256	3	LIT Elective	3	PWR 478	2
	HIS 120	3	Elective	3	Science	3	Elective	3
	LIT 120	3	PHI 205	3	RST Elective	3	SSC Core	3
	MOL	3	FAS 20x	2			Elective	6
	Semester total	15		14		15		15
Total Credits	31		30		30		30	121

PWR 240 Writing for Media (3 crs)

Survey of fundamentals necessary for writing in various media including print and broadcast journalism, public relations, advertising and multimedia authoring. This course is designed to help students interested in communication and wanting to explore the wide range of opportunities available to professional writers. Writing intensive. Prerequisite: 2.0 or higher in ENG 105/110 or permission of instructor.

PWR 251 Fundamentals of Reporting (3 crs)

Examination of and practice in the skills of gathering information and writing news and feature stories with precision, balance and insight. Emphasis on planning and writing strategies, conducting effective interviews and developing the power of observation and research necessary for accurate and vivid description and reporting. Students will produce several stories for their portfolios. Writing intensive. Prerequisite: 2.0 or higher in ENG 105/110.

PWR 252 Copyediting and Layout (3 crs)

Fundamentals and techniques of computer-assisted editing and designing newspaper and magazine pages for clarity, accuracy and impact. Emphasis on a reader-centered approach to editing and page design that ensures that readers see and care. Students will produce several page design projects for their portfolios. Prerequisite: PWR 226 or permission of instructor.

PWR 253 Web and Multimedia Authoring (3 crs)

Introduction to the process of designing, writing and coding multimedia focusing on web page authoring and design. The course will begin with simple concept mapping and coding (HTML and Javascript). Emphasis on an audience-centered approach to planning, non-linear writing and web design that reflects the effective integration of writing and graphics. Course will include the documented development and design of several web sites. Writing intensive. Prerequisites: 2.0 or higher in ENG 105/110, PWR 135 and PWR 226, or permission of the instructor.

PWR 254 Interface Design (3 crs)

Emphasis on designing, authoring and managing more sophisticated websites focusing on site architecture, navigation schemes and interactivity. Students will make extensive use of web authoring tools, graphic design tools and scripting (using resources such as Dreamweaver, Flash and Javascript). Course will include the documented development and design of several multimedia web products. Writing and graphic design intensive. Prerequisite: 2.0 or higher in PWR 253 or permission of the instructor.

PWR 342 Media Ethics (3 crs)

Examination of the moral, social and legal issues facing writers, editors and graphic artists in a communications world characterized by complex and rapidly changing technologies and social conditions. Emphasis on identifying enduring personal virtues necessary to communicate in ways that respect human dignity, human ends and social justice. Prerequisite: second level of philosophy core or permission of instructor.

PWR 473, 474 Professional Communications Internships (1 credit each semester)

Guided experience in an actual work environment related to the student's career goals. Minimum of 50 hours per internship. Student keeps log and submits for evaluation. Internships must be completed in different organizations and involve different types of writing. Majors required to take both internship courses; minors may select one internship. Prerequisite: 2.0 or higher in coursework which prepares the student for the type of writing that the internship will involve.

PWR 477, 478 Senior Seminar and Portfolio (2 crs)

In-depth examination of a current issue/trend in media, professional, or creative writing resulting in a documented media product and a related research paper focusing on some writing issue connected with that product. The combined project requires a written proposal, public presentation of the project's results and an acceptable document at the end of the course. The student will use the final product as the centerpiece for a professional portfolio. Writing intensive. Prerequisite: senior standing in Professional Communications major.

Regular Day Class Electives:**PWR 242 Feature Writing (3 crs)**

Examination of and practice in methods of feature writing for newspapers, magazines and multimedia. Emphasis on effective descriptive writing techniques that engage all the senses to make the reader see and care. Discussion of freelancing, developing ideas, working with editors and how to get published. Students will complete several portfolio projects. Writing intensive. Prerequisite: 2.0 or higher in PWR 251 or permission of instructor.

PWR 244 Public Relations Writing (3 crs)

Study and practice in the kinds of writing required for effective public relations, including news releases, brochures, public service announcements, presentations and speeches and media kits. Writing intensive. Prerequisites: 2.0 or higher in ENG 105/110, PWR 240 and PWR 251 or permission of the instructor. In addition, MKT 211 and/or MKT 316 are encouraged.

PWR 245: Writing for Advertising (3 crs)

Study and practice in advertising as a critical element of an organization's total marketing plan. Emphasis on developing consumer profiles, positioning strategies and creative work plans for advertisers as well as conducting proper research and creating effective visual designs and ad copy. Students document and produce ads for print, broadcast, outdoor and other media and also complete an advertising campaign for their portfolio. Writing intensive. Prerequisites: 2.0 or higher in ENG 105/110 and PWR 240 or permission of the instructor. Students are strongly encouraged to either have taken or be concurrently enrolled in PWR 226. In addition, MKT 211 and/or MKT 316 are encouraged.

PWR 246 Technical and Scientific Writing (3 crs)

Introduces rhetorical and visual design principles as well as invention and collaborative practices for transforming technical and scientific information into a variety of documents for non-specialist audiences. Emphasis on short- and long-term, as well as individual and collaborative project management. Students will complete several portfolio projects. Writing intensive.

PWR 321 Creative Writing: Poetry Workshop (3 crs)

A collegial, collaborative atmosphere for learning to read, write and talk about poetry. Extensive reading to develop a sense of technique, especially metaphor. Journal-keeping, drafting exercises and consistent peer-aided revision of student poetry in once-a-week workshops and individual tutorials. Prerequisites: LIT 321 recommended or permission of instructor. Formal entrance application required.

PWR 323 Creative Writing: Fiction Workshop (3 crs)

A collegial, collaborative atmosphere for learning to read, write and talk about fiction. Extensive reading to develop a sense of technique, especially characterization. Journal-keeping, drafting exercises and consistent peer-aided revision of student fiction in once-a-week workshops and individual tutorials. Prerequisites: LIT 323 recommended or permission of instructor. Formal entrance application required.

PWR 325 Image Editing (3 crs)

Fundamentals and techniques of scanning and computer-aided image editing using software such as Adobe Photoshop. Students will complete several portfolio projects useful for job applications in communications, graphics, marketing, management and training. Familiarity with computer, e-mail and the Internet required.

PWR 327 Illustration (3 crs)

Fundamentals and techniques of computer-aided illustration using software such as Adobe Illustrator and Macromedia Freehand. Students will complete several portfolio projects useful for job applications in communications, graphics, marketing, management and training. Familiarity with computer, e-mail and the Internet required.

PWR 347 Introduction to Legal Writing (3 crs)

Introduces the basic tools of legal research and writing—the case method, court structure within which precedent and stare decisis operate, some civil procedure terminology, practice at reading and dissecting cases and an introduction to analyzing a closed universe legal problem (one not requiring legal research). Introduces writing basic office memoranda. Emphasis on clear, objective and accurate use of language in the kinds of documents required of law students and those whose careers require frequent interpretation of legal language and formats. Students will produce several portfolio examples of legal documents. Writing intensive. Prerequisite: 2.0 or higher in ENG 105/110. Students are encouraged either to have taken or be concurrently enrolled in POS 330 Constitutional Law.

PWR 444 Advanced Public Relations (3 crs)

Intensive study of the planning and writing skills necessary to put together systematic and effective public relations campaigns. Students will prepare an extensive campaign project for their portfolio. Writing intensive. Prerequisites: 2.0 or higher in PWR 226, PWR 244, PWR 251 and PWR 252.

PWR 447 Advanced Legal Writing (3 crs)

Further development of rhetorical and visual design principles necessary for communicating legal concepts and information to various legal audiences. Focus on open universe litigation documents such as trial and appellate briefs. Emphasis on legal research methods and the clear, concise and effective presentation of the law. Students will produce several portfolio examples of legal documents. Writing intensive. Prerequisite: 2.0 or better in PWR 347; students are encouraged either to have taken or be concurrently enrolled in POS 331 Civil Rights and Liberties Law.

PWR 451 Advanced Reporting (3 crs)

Intensive study and practice of advanced newsgathering, writing and specialized reporting techniques as well as on news judgment. Writing intensive. Prerequisites: 2.0 or higher in PWR 251 and PWR 252.

PWR 453 Advanced Web Authoring (3 crs)

Further development of concepts and skills needed to design, author and manage the development of advanced data-driven websites. Further exploration of advanced web authoring resources. Students will form a web authoring team and produce a major project for student portfolios. This course is particularly helpful for those interested in learning how to design e-commerce websites. Writing and graphic design intensive. Prerequisite: 2.0 or higher in PWR 253/254 or permission of the instructor.

PWR 454 Advanced Multimedia Authoring (3 crs)

Further development of concepts and skills needed to design, author and manage the development of multimedia projects. Further exploration of advanced authoring resources. Students will form a multimedia development team which will produce a major project for student portfolios. Writing and graphic design intensive. Prerequisite: 2.0 or higher in PWR 253/254 or permission of the instructor.

PWR 460 Theology of Social Communications (3 crs)

Study of the theology of social communications and its application to communications concepts and skills and communications work—including a critical evaluation of current trends in the reporting of religion and other religious communications. Writing intensive. Prerequisites: 2.0 or better in the completed English and theology cores or permission of instructor.

Courses Offered Through Adult and Continuing Education:**PWR 248 Writing Successful Grant Proposals (3 crs)**

Learn how to identify promising grant prospects, research and prepare effective grant proposals and properly evaluate responses. This class will take you through the process of learning how to present your vision and needs and calibrate the story of your institution to fit the criteria of grant prospects. Students will prepare grant proposals for real prospects and obtain critique and advice from a jury of philanthropic judges. No prerequisites although excellent command of grammar and usage and strong writing skills are necessary to write successful grant proposals.

Environmental Studies

Contact Person: Ben M. Stout, III, Ph.D.

The Bachelor of Science in Environmental Studies is an interdisciplinary program which addresses the needs of society to protect and enhance land, water and air resources. The curriculum was designed with the intention of training students in a broad spectrum of interrelated scientific and social fields. Graduates from this program will have a broad-based foundation of technical, social and intellectual training enabling them to pursue careers in natural resource management. It is anticipated that graduates will contribute to society in the areas of scientific inquiry and analysis, environmental policy and law enforcement, ecological protection, restoration and enhancement. Additionally, the program provides an alternative field of study for students entering science and allied health programs.

Upon completion of the Environmental Studies program, students will be able to demonstrate the ability to:

1. Be knowledgeable about scientific methods and the process of science.
2. Be knowledgeable about the physical, chemical and biological makeup of planet Earth and the interactions among the disciplines.
3. Be knowledgeable about the relationship between science and policy.
4. Conduct independent research and critique the research of others.
5. Read, write and communicate about science in a technologically advanced world.
6. Analyze scientifically collected data and provide ethical and balanced information to an increasingly aware public.

Requirements for Environmental Studies Major Bachelor of Science Degree

In addition to completing the core curriculum requirements, outlined on pp. 14-15 of this catalog, all Environmental Studies majors must complete 24 required courses in 8 academic disciplines. The program requirements encompass 60 credit hours, 9 of which are core fulfilling.

All ENV majors will be required to take ENV 101 during their freshman year. Sophomores will take Environmental Health and Safety (ENV 201) during the Spring semester.

BIO 115*	General Biology 1	(3 crs)
BIO 120	General Biology 2	(3 crs)
BIO 121	General Biology Lab 1	(1 cr)
BIO 122	General Biology Lab 2	(1 cr)
BIO 205	Ecology	(3 crs)
BIO 221	Ecology Laboratory	(1 cr)
CHE 110*	General Chemistry 1	(4 crs)
CHE 120	General Chemistry 2	(4 crs)
CHE 121	General Chemistry Lab	(1 cr)
CHE 122	General Chemistry Lab	(1 cr)

CHE 221	Organic Chemistry	(4 crs)
CHE 231	Organic Chemistry Lab	(1 cr)
CHE 318	Environmental Chemistry	(3 crs)
ENG 246	Sci. and Tech. Writing	(3 crs)
ENV 101	Intro. Environmental Studies	(3 crs)
ENV 201	Environmental Health and Safety	(3 crs)
ENV 350	Environmental Testing	(3 crs)
ENV 375	Special Project:	
	Biostatistics & Experimental Design	(1 cr)
ENV 376	Special Project:	
	Instrumentation & Data Acquisition	(1 cr)
ENV 475	Data Analysis	(1 cr)
ENV 482	Research Presentation	(2 crs)
MAT 105*	Introduction to Statistics	(3 crs)
MAT 111	Calculus I	(4 crs)
NME 130	Radiation Safety	(2 crs)
PHY 208	Environmental Geology	(3 crs)

* core fulfilling

Each student must complete one elective course from the list below. Other courses for advanced study will depend on the student's desired field of concentration (e.g., Sociology: Environmental Crime; Biology: Environmental Toxicology).

Elective offerings in Environmental Studies:

BIO 455	Population Genetics	(3 crs)
CHE 222	Organic Chemistry II	(3 crs)
EVS 340	Environmental Internship	(2 crs)
PHI 354	Environmental Ethics	(3 crs)
PHY 110	Physics I	(3 crs)

Special Notes for Environmental Studies Majors:

Environmental Studies internships will not be required for graduation. However, competitive Junior and Senior level students majoring in Environmental Studies will be encouraged to pursue summer internship opportunities. These internships may include in-residence experiences with state and federal agencies (EPA, Forest Service, National Biological Service), private companies (law firms, consultants), non-profit natural resource organizations (Audubon, The Nature Conservancy), and colleges and universities (WJU, WVU).

Course Descriptions

ENV 101 Introduction to Environmental Studies (3 crs)

An introduction to the necessity of mastering multiple fields of study in order to become competent at addressing environmental issues. Case history reviews of world-wide environmental concerns will provide themes for discussion throughout the student's tenure at Wheeling Jesuit University. This course is required for freshmen entering the Environmental Studies program and sophomores transferring into the program from other disciplines. Prerequisite: Environmental Studies major.

ENV 201 Environmental Health and Safety (3 crs)

This course provides training for the Occupational Safety and Health Administration's 40-hour health and safety certification. Subjects covered include hazardous materials remediation sites, emergency response to toxic and hazardous spills, health effects and levels of personal protective equipment.

ENV 340 Internship in Environmental Studies (1-3 crs)

Students may request prior approval for college credit for internship experiences as employees or volunteers with state, federal, private and non-profit natural resource organizations. If pre-approved and follow-up documentation requirements are satisfied, up to 3 credit hours of internship may be used toward the restricted elective graduation requirement. No more than 6 credits total will be approved for graduation requirements. Prerequisite: consent of the Program Director.

ENV 350 Environmental Testing (3 crs)

Field survey instrumentation, analytical methods, laboratory analysis techniques and sampling protocols are covered in this technical issues course. Hands-on methods will be presented as well as the "chain of custody" complete process for state of the art measurement of air, soil and water. Prerequisite: ENV 201.

ENV 375 Special Project: Biostatistics & Experimental Design (3 crs)

Includes preparation for an independent research project including literature review, organization of a protocol with planned statistical treatments of data and seminar participation. Selection of a project will be with the consent and guidance of faculty. Prerequisite: Junior standing.

ENV 376 Special Project: Instrumentation & Data Acquisition (3 crs)

Continuation of an independent research project including modification of the protocol, testing materials and methods, commencement of data collection and seminar participation. Continuation of BIO 375.

ENV 475 Special Project: Data Analysis (1 cr)

Data Analysis involves the exploration, statistical analysis and visualization of data collected for the student's independent research project. Prerequisite: Senior standing.

ENV 482 Research Presentation (2 crs)

Oral and written presentation of original research findings. Prerequisite: Senior standing.

ENVIRONMENTAL STUDIES - Recommended Course Sequence

	Freshman		Sophomore		Junior		Senior	
FALL	HIS 101	3	MAT 108	3	CHE 221	4	RST Elective	3
	RST 106/107	3	PSY 110	3	CHE 231	1	PHI 205	3
	BIO 115	3	BIO 205	3	MOL 102	3	SSC 350	3
	BIO 121	1	BIO 221	1	NME 130	2	Electives	6
	PHI 105	3	CHE 110	4	LIT 250	3	ENV 475	1
	FYS 101	1	CHE 121	1	FAS 201	2		
			FAS 101	1	ENV 375	1		
Semester total	14		16		16		16	
SPRING	MAT 105	3	LIT 120	3	PWR 246	3	RST/PHI 305	3
	ENG 105	3	MAT 111	4	MOL 110	3	ENV 482	2
	HIS 120	3	ENV 201	3	ENV 350	3	PHY 208	3
	BIO 120	3	CHE 120	4	ENV 376	1	Global Persp.	3
	BIO 122	1	CHE 122	1	CHE 318	3	Elective	3
	ENV 101	3			Elective	3		
	Semester total	16		15		16		14
Total Credits	30		31		31		29 121	

First Year Program

Contact Person: Helen M. Faso, Ph.D.

The First Year Program is designed to aid students with their transition to Wheeling Jesuit University. Its goal is to offer students the tools necessary to succeed. Faculty lead the seminar sections and conduct classes on skills such as time management, note-taking and public speaking. Faculty also work closely with the students, trying to foster a sense of community and belonging. Whenever possible, this faculty person serves as a student's academic advisor for the first semester. In conjunction with Student Life personnel, Wellness programs which reflect the developmental needs of first year students are presented. In keeping with the Jesuit tradition of service to others, all First Year Program students participate in "Make A Difference Day" where their services are offered to the greater Wheeling community. All first year students are required to participate in the First Year Program. This one credit course is taken in the fall of a student's first year.

Course Descriptions

FYS 101 First Year Seminar (1 cr)

Introduction to college. Emphasizes basic skills, social concerns and developing a sense of community at Wheeling Jesuit University.

FYS 102 First Year Seminar II (1 cr)

Advanced work on time management, study skills, organization and responsibility. Prerequisite: Permission of Associate Academic Dean.

French

(See descriptions of French courses in Modern Languages section, p. 74)

General Science

Contact Person: Peter D. Ehni, Ph.D.

General science courses are designed around themes that integrate the natural sciences. They show how scientists tackle problems and how science works. Of the general science courses which are designated as core fulfilling, only one may be used to satisfy the science core requirement, see core curriculum pp. 14-15.

Course Descriptions

GSC 110 Integrated Sciences I (3 crs)

An integrated science and math course for the non-science major. The course investigates science and the scientific method through selected topics in the traditional fields of biology, chemistry, physics and earth and space science. Math topics are integrated as appropriate. Topics fit the more traditional areas of physics, chemistry and biology. A hands-on, student centered approach is taken. Lab and lecture are integrated with the course meeting for 90 minutes three times in a week.

GSC 120 Integrated Sciences II (3 cr)

An integrated science and math course for the non-science major. The course investigates science and the scientific method through selected topics in the traditional fields of biology, chemistry, physics and earth and space science. Math topics are integrated as appropriate. Topics include the human body, sound and waves, electricity, astronomy and geology. A hands-on, student centered approach is taken. Lab and lecture are integrated with the course meeting for 90 minutes three times a week.

GSC 135 The Science of Health (3 cr)

The Science of Health uses scientific principles to discover the effects of life style on long-term health outcomes. The science of nutrition, exercise, chronic disease, naturalistic healing and aging are explored. The instructional strategies used involve the student in learning as a co-inquirer with instructor.