

Law

Contact Information

Phone: 401.865.2434

Fax: 401.865.1222

Location: Howley Hall 315

The Courses

LAW 201 General Law

1 SEMESTER, 3 CREDITS

This course will examine the jurisdiction of federal and state courts, and the interplay of the courts, legislature and executive branch in the development of legal principles. The basic elements of civil procedure, contracts, property, torts, crimes and domestic relations will be discussed and supplemented by case analysis. This course is taught by attorneys engaged in the practice of law.

LAW 305 Legal Studies: Topics in Civil Litigation

1 SEMESTER, 3 CREDITS

This course will examine legal issues that impact the daily lives of American citizens. By analyzing the relationship among social values, politics and the law, students will learn about the dynamic evolution of the framework for civil litigation, constitutional rights and jurisprudential precedents. Substantive topics include free speech, right to privacy, the Internet, school law, employment law and family law.

Liberal Arts Honors

Contact Information

Phone: 401.865.2233

Fax: 401.865.2057

Location: Feinstein Academic Center 316

The Faculty

Stephen J. Lynch, Ph.D., *Director*

Suzanne J. Fournier, Ph.D., *Associate Director*

The Program

The Liberal Arts Honors Program offers students of high academic ability and initiative a more in-depth and rigorous version of the Providence College Core Curriculum. Students are required to take a minimum of six Honors courses: normally the four-course sequence of Honors Development of Western Civilization during the freshmen and sophomore years, one or two Honors electives in the junior year, and a capstone colloquium in the senior year. Most Honors students opt to take an additional two or three courses beyond the minimum of six. Since most Honors courses fulfill basic requirements for the Core Curriculum, Honors students are free to pursue any major or minor (or combination of majors and minors) at the College.

Honors courses are offered in virtually all areas of the Core Curriculum, including theology, philosophy, social sciences, natural sciences, and fine arts. Honors courses require substantially more reading, more writing, and more seminar discussion—and thus provide students with greater breadth of knowledge, intellectual perception, and aptitude for creative thinking. Small, seminar-style classes of 12-15 students allow for extensive one-on-one contact among students and professors.

All Honors courses are weighted, so that students earn an additional .17 grade points for each course. (Thus a regular B+ earns 3.33 grade points while an Honors B+ earns 3.50, though an Honors A is the exception and does not earn more than 4.0.) In order to graduate with an Honors Certificate, a student must earn a minimum cumulative grade point average of 3.25.

How to Qualify

Invitations to the Honors Program are extended from the Office of Admission based on the student's overall application to Providence College. Qualifying students are invited into the program on the basis of the rigor of their high school courses, class standing, SAT scores, recommendations, and sample essays. Students who are not in-

vited as freshmen, however, can apply for admission into the Honors Program after one or two semesters of outstanding academic performance at the College.

Course Requirements for an Honors Certificate

HON 101-102 Development of Western Civilization
(2 semesters, freshmen year)

HON 201-202 Development of Western Civilization
(2 semesters, sophomore year)

HON 480 or 481 Colloquium
(1 semester, junior or senior year, topics vary
each semester)

A minimum of one additional Honors course

NOTE: Students who enter the Honors Program in the sophomore year can substitute any two Honors courses for HON 101-102.

The Courses

HON 101-102 The Development of Western Civilization
2 SEMESTERS, 5 CREDITS EACH (DWC Core)

An interdisciplinary study of the history, literature, philosophy, theology, art and music of the West from ancient Mesopotamia to the 17th century.

HON 201-202 The Development of Western Civilization
2 SEMESTERS, 5 CREDITS EACH (DWC Core)

An interdisciplinary study of the history, literature, philosophy, theology, art and music of the West from the 17th century to the present.

HON 205 Language and Thought

1 SEMESTER, 3 CREDITS (Social Science Core)

This course examines the relationship between language and the human mind from the points of view of the grammatical and semantic structures of human languages. Special attention is paid to the workings of metaphor and other figurative language in both ordinary conversation and artistic works.

HON 206 Macro Economics

1 SEMESTER, 3 CREDITS (Social Science Core)

This course is an honors version of ECN 102 Principles of Economics.

HON 207 Micro Economics

1 SEMESTER, 3 CREDITS (Social Science Core)

This course is an honors version of ECN 101 Principles of Economics.

HON 208 Introduction to Sociology

1 SEMESTER, 3 CREDITS (Social Science Core)

This course is an honors version of SOC 101 Introductory Sociology.

HON 209 Politics

1 SEMESTER, 3 CREDITS (Social Science Core)

This course is an honors version of PSC 101 Politics.

HON 210 Topics in Science

1 SEMESTER, 3 CREDITS (Natural Science Group I Core)

A study of selected developments in the natural sciences and their interactions with other areas of thought.

HON 212 The Development of Modern Biology

1 SEMESTER, 3 CREDITS (Natural Science Group II Core)

An in-depth study of the development of the theory of evolution, which forms the foundation of modern biology. Particular attention will be paid to the manner in which Darwin developed his theory of natural selection and the further development of evolutionary theory in the 20th century.

HON 214 American Government and Politics

1 SEMESTER, 3 CREDITS (Social Science Core)

This course is an honors version of PSC 201 American Government and Politics.

HON 220 The Dimensions of Art

1 SEMESTER, 3 CREDITS (Fine Arts Core)

A course designed to explore the concepts, products, and processes of creativity in the arts.

HON 230 Foundations of Theology

1 SEMESTER, 3 CREDITS

Historical and systematic study of theology: its relation to its sources, methods of theology, and chief theological systems. One or two prominent theologians will be studied in depth.

HON 301 Honors Studies in Philosophy

I SEMESTER, 3 CREDITS (Philosophy Core)

Electives for students in the honors program in which professors in the Department of Philosophy present courses in their areas of special competence.

HON 302 Honors Studies in Ethics

I SEMESTER, 3 CREDITS (Ethics Core)

Electives for students in the honors program in which professors in the Department of Philosophy present courses in their areas of special competence.

HON 311 Honors Studies in Theology

I SEMESTER, 3 CREDITS (Theology Core)

Electives for students in the honors program in which professors in the Department of Theology present courses in their areas of special competence.

HON 312 Honors Studies in Moral Issues

I SEMESTER, 3 CREDITS

Electives for students in the honors program in which professors in the Department of Theology present courses in their areas of special competence on moral theology.

HON 385 Honors Writing

I SEMESTER, 3 CREDITS

This course is an honors version of ENG 385 Advanced Writing. *Prerequisite: English proficiency.*

HON 480 - 481 Colloquium

I SEMESTER, 4 CREDITS

Colloquium courses explore an interdisciplinary topic in depth. Several sections are offered each year on a variety of themes and topics.

HON 490 - 491 Independent Research

I SEMESTER, 3 CREDITS

Limited to seniors in the Honors Program, this course offers an opportunity for students to explore a significant interdisciplinary problem under the direction of a faculty member. Each project must receive the approval of the director of the honors program.

Linguistics

The Courses**LIN 201 Introduction to Linguistics I**

I SEMESTER, 3 CREDITS (Social Science Core)

Topics included are phonetics, the relationship between speech and writing, language and the brain, language acquisition, foreign language learning, and the ways that languages change over time. Attention is paid to the applications of linguistics in psychology, education, and language pathologies. *This may be taken independently of Linguistics II, but the two courses together provide a survey of the field.*

LIN 202 Introduction to Linguistics II

I SEMESTER, 3 CREDITS (Social Science Core)

Topics included are morphology (how words are constructed and understood in different languages), semantics, syntax, discourse analysis, and regional dialects. Attention is paid to the applications of linguistics in psychology, psychotherapy, education, and literature. *This may be taken independently of Linguistics I.*

LIN 306 Modern English Grammar

I SEMESTER, 3 CREDITS

This course teaches students to analyze Modern English as it is actually spoken and written. Students learn to recognize the subconscious rules they use to fashion sentences and how to use these to write elegantly and incisively. Attention is paid also to the notion of proper usage. *Same as ENG 306.*

LIN 308 Sociology of Language

I SEMESTER, 3 CREDITS (Social Science Core)

Sociolinguistics examines how language allows individuals to project their identity, controls all social interactions, reveals ethnic and other cultural behaviors, and affects the law, medical encounters, and education. Bilingualism, dialects, gender issues, and paralinguistics, including body motion also are discussed, as is the accuracy of using language data to uncover social divisions within communities. *Same as SOC 308.*

LIN 471 Topics in Linguistics

I SEMESTER, 3 CREDITS

Individual study programs on various topics.

Management

Contact Information

Phone: 401.865.2332

Fax: 401.865.2978

Location: Koffler Hall 115

The Faculty

Associate Professors

Matthew Eriksen, Ph.D.

Peter S. Goodrich, Ph.D.

MaryJane Lenon, Ph.D. (Economics), *Chairperson*

Gregory Lu Light, Ph.D.

Pamela D. Sherer, Ph.D.

Karen S. Whelan-Berry, Ph.D.

Assistant Professors

Todd M. Alessandri, Ph.D.

Joseph A. Gemma, M.B.A.

Teodros Getachew, Ph.D.

Thomas R. King, Ph.D.

Francine Newth, D.B.A.

The Major

The Department of Management offers a bachelor of science degree in management.

The management curriculum develops management competence in liberal arts students to prepare them for local, national, and global leadership positions in 21st-century organizations. Management competence means having the critical knowledge and skills necessary to lead modern organizations in changing times. Students who major in management develop competencies in five areas:

- management knowledge
- oral and written communication
- information technology
- teamwork
- qualitative and quantitative reasoning

The management knowledge base is solidified through the management curriculum. The management skills base is developed by using a variety of creative instructional methods in the classroom and by working with for-profit and not-for-profit organizations and alumni in experimental learning situations. Both are integral to the development of management competencies.

The management curriculum is closely aligned with the liberal arts objectives of Providence College. Business lead-

ers are increasingly looking for college graduates not only with a background in core management courses but also with a background in the liberal arts. These courses allow our students to fit into a business environment that is more global and diverse than ever before. Leading and motivating people, solving business problems, and working within an environment of innovation and change are challenges for which our management majors are preparing.

The Department of Management offers core management courses to help management majors build a variety of skills they will need to meet these challenges. The management curriculum also provides the flexibility of electives, which allow students to specialize in an area of interest.

The Department of Management offers its majors a number of valuable options both inside and outside of the classroom. These options allow management majors to do the following:

- Participate in a management internship in a specific field of interest. Such an internship may be incorporated into a practicum in which student interns share their experience with each other as well as meet with business professionals from various companies.
- Complement an interest in international business with foreign language study and a semester or year abroad.
- Examine current management issues such as globalization and workplace diversity.
- Design and complete an independent study project in the senior year.
- Benefit personally from the department's active relationship with the College's career placement center, via the business communications course on the process of job interviewing and career exploration.
- Be part of a growing valuable alumni network as well as connect with upper-class management majors as a complement to the department's advising process.
- Become a member or a leader in the Department of Management's Future Friar Executives Club.

The following major requirements apply to the Classes of 2009, 2010, and 2011. Beginning with the Class of 2012, the management major requirements have changed. For more information on these requirements, please contact the School of Business directly or visit the Web site at: <http://www.providence.edu/Academics/School+of+Business/>.

Suggested Sequence*Requirements of the Management Major*

The suggested order in which the minimum required courses should be taken is as follows:

Freshman Sem. 1

			Credits
DWC	101	Devel of Western Civilization	5
MGT	101	Principles of Management	3
ACC	103	Financial Accounting	3

MTH	108	Math Business Analysis II*	3
OR			
ENG	101	Freshman Writing	

Freshman Sem. 2

DWC	102	Devel of Western Civilization	5
MGT	110	Management Info Systems	3
MKT	205	Marketing Management	3

ENG	101	Freshman Writing Seminar	3
OR			
MTH	108	Math Business Analysis II*	
OR			
Non-Departmental Elective			

Sophomore Sem. 1

DWC	201	Devel of Western Civilization	5
NSC	101	Natural Science I (Physical Science)	3
MGT	201	Statistical Analysis	3
ECN	101	Principles of Economics-Micro	3

Sophomore Sem. 2

DWC	202	Devel of Western Civilization	5
NSC	102	Natural Science II (Bio. Sciences)	3
MGT	210	Business Communications	3
ECN	102	Principles of Economics-Macro	3

Junior Sem. 1

MGT	301	Organizational Behavior	3
MGT	310	Operations Management I	3
FIN	207	Managerial Finance	3
PHL		Philosophy Elective**	3

OR

THL		Theology Elective***	
		Non-Departmental Elective	3

Junior Sem. 2

MGT	320	Human Resources Management	3
MGT	330	Legal Environment for Business I	3
THL		Theology Elective***	3

OR

PHL		Philosophy Elective**	
		Non-Departmental Elective	3
		Free Elective	3

Senior Sem. 1

MGT	401	Organizational Theory	3
MGT		Management Elective****	3
PHL		Philosophy Elective**	3

OR

THL		Theology Elective (Group I)***	
		Fine Arts Elective	3
		Free Elective	3

Senior Sem. 2

MGT	489	Capstone Seminar in Strategy	3
MGT		Management Elective	3
THL		Theology Elective (Group II)***	3

OR

PHL		Philosophy Elective**	
		Free Electives (2)	6

*Or MTH 109, or a higher MTH course, by placement test.

**One of two PHL electives must be a business ethics or an ethics course.

***Students must select one course from THL Group I and one course from THL Group II.

****MGT 450 Internship is recommended for one of the two MGT electives.

The Courses

MGT 101 Principles of Business Management

I SEMESTER, 3 CREDITS

A thorough development of decision-making, managerial creativity, and the art of management. The principles of planning, organizing, staffing, directing, and controlling are treated as basic guides to effective management.

MGT 110 Management Information Systems

I SEMESTER, 3 CREDITS

An introduction to the diverse roles that management information systems play in organizations. Topics include: information systems infrastructure, management issues in the development and implementation of information systems, the use of information technology in sales, marketing, finance, accounting, production, and human resource management; and the history of management information systems. Also introduced are spreadsheets, database management systems, and Web design through hands-on projects.

MGT 201 Statistical Analysis for Business Decisions I

I SEMESTER, 3 CREDITS

This course introduces students to the basic statistical methods used to support problem-solving and decision-making in business and economics. Emphasis is placed upon understanding elementary concepts and procedures which include: descriptive statistics, basic probability rules, discrete and continuous probability distributions, the central limit theorem, hypothesis testing, regression, and correlation. *Prerequisite: MTH 108 or equivalent.*

MGT 210 Business Communications

I SEMESTER, 3 CREDITS

Emphasis is placed on the application of the principles and practices of correct business writing in the form of business memoranda, letters, résumés, and reports which stress clarity and precision in the proper use of the English language. Also, considerable attention is given to oral communications, which enable the student to be well-prepared for seminars, interviews, and platform speeches. *Prerequisite: English proficiency.*

MGT 301 Organizational Behavior

I SEMESTER, 3 CREDITS

This course involves the analysis of how people behave both as individuals and as members of groups and organizations. The topics covered in this course include perception, motivation, group dynamics and team effectiveness,

leadership, power and politics, decision-making, and managing diversity and individual differences. *Prerequisite: MGT 101.*

MGT 310 Operations Management I

I SEMESTER, 3 CREDITS

Involves the efficient use of inputs to create goods and services that will satisfy the needs of customers and clients. This course develops students' abilities to identify and structure operating problems and to identify appropriate techniques for resolving them. *Prerequisites: ECN 102 and MGT 201.*

MGT 320 Human Resource Management

I SEMESTER, 3 CREDITS

Human resource management deals with the design of formal systems in an organization to ensure the effective and efficient use of human talent to accomplish organizational goals. Topics covered include job analysis, staffing, training and development, managing and appraising performance, compensation, pay and benefits, employee relations, and union-management relations. *Prerequisite: MGT 101.*

MGT 330 Legal Environment for Business I

I SEMESTER, 3 CREDITS

This course is designed to provide students with a basic study of legal aspects and concerns of the modern business community. Study of legal systems and constitutional law serve as a background. Emphasis is placed upon contracts, agency, partnerships, and corporations as topics.

MGT 331 Legal Environment for Business II

I SEMESTER, 3 CREDITS

This course is designed for accounting majors. It deals with specialized areas of regulatory law. Subjects covered are sales, commercial paper, debtor and creditor, bankruptcy, and property. Business regulations, including securities, consumer protection, and employment are discussed. References to the Business Law sections of the C.P.A. exam are reviewed and analyzed. *Prerequisite: MGT 330.*

MGT 340 Information Systems Analysis and Project Management

I SEMESTER, 3 CREDITS

Introduces the student to the modern analysis methods and associated technologies employed in the modeling of

complex information systems software, as well as the project management techniques used in the implementation thereof. A hands-on approach, in which the student applies the techniques and concepts learned to a project of substantial scope and applicability. *Prerequisite: MGT 110 or permission of instructor.*

MGT 341 Enterprise Systems Integration

1 SEMESTER, 3 CREDITS

This course will provide a survey of the concepts underlying enterprise systems modeling and integration and the frameworks, methodologies, and technologies for its implementation. It will involve a hands-on application of these principles to the analysis of a real-world business with a view to recommending an implementable organizational solutions. *Prerequisite: MGT 340 or permission of instructor.*

MGT 342 Project Management

1 SEMESTER, 3 CREDITS

This is an advanced management course that will enable students to gain competence in the specific techniques used by effective managers to lead projects of limited duration. Project leadership is presented as a particularly effective technique for managing people in manufacturing and software industries, service industries, technical specialists, and professionals of all kinds. *Prerequisite: MGT 110.*

MGT 350 Small Business Management

1 SEMESTER, 3 CREDITS

The emphasis is on a practical approach to planning and operating a small business venture. Included are advantages and disadvantages of small business ownerships. Topics covered include the development of a business plan, functions of management, control, financing, record keeping, insurance, and legal forms of ownership. The methods of acquiring small firms also are discussed. *Prerequisite: MGT 101.*

MGT 360 International Business

1 SEMESTER, 3 CREDITS

This is a survey course to introduce students to the global business environment. The course explores the economic, political/legal, cultural, and competitive complexities to conduct business internationally and globally. It discusses and analyzes international and global business practices.

MGT 401 Organizational Theory

1 SEMESTER, 3 CREDITS

Organization theory is concerned with people aggregated into departments and organizations, and with the structure and behavior at the organizational level of analysis. Topics covered include the external environment, goal and effectiveness, bureaucracy, technology, structures, change, information and control, power and politics, decision-making, and organizational leadership. *Prerequisite: MGT 101.*

MGT 410 Operations Research

1 SEMESTER, 3 CREDITS

Provides an advanced study of techniques useful in management decision-making. Topics include: strong emphasis on business spreadsheet modeling; classical optimization techniques; linear, nonlinear, and integer programming; network models; dynamic programming; queuing theory; inventory control and production planning models; and Monte Carlo simulation. *Prerequisite: MGT 201 or equivalent.*

MGT 411 Leadership Development

1 SEMESTER, 3 CREDITS

This course leads students through the process of diagnosing their current strengths in various areas of leadership skills and helps them develop action plans based on their self-identified areas for improvement. Students are introduced to various models/theories of leadership for the purposes of applying those models/theories to current and future leadership situations.

MGT 420 Comparative Management

1 SEMESTER, 3 CREDITS

This course will provide a cultural, behavioral, and strategic focus on comparative management issues in a global setting. It is intended to develop knowledge and skills needed to manage effectively in other cultural environments and/or to work effectively with people from other cultures. *Prerequisite: MGT 320.*

MGT 430 Managing Workplace Diversity

1 SEMESTER, 3 CREDITS

This course explores the opportunities and challenges facing organizations and individuals as a result of the increasingly diverse work force. It will investigate the changing nature of the workplace through the meaning of diversity; identify managerial challenges in addressing a diverse work force; and examine individual attitudes, be-

Marketing

liefs, and behaviors of key diversity issues. *Prerequisite:* MGT 101.

MGT 450 Internships

1 SEMESTER, 3 CREDITS

This course permits juniors and seniors to engage in outside internships for academic credit. The criteria are essentially based on academic and experience components, which are supervised by a faculty member. *Prerequisite:* *Permission of chairperson.*

MGT 480 Seminar in Management Theory

1 SEMESTER, 3 CREDITS

Analysis of management functions. Emphasis on the study and analysis of various theoretical approaches to planning, organizing, staffing, directing, and controlling an organization in attaining objectives. Historical evolution and assessment of management research. Compares normative assumptions, theories, and methodologies. Explores research strategies on topics of current interest to participants. *Prerequisite:* MGT 101.

MGT 489 Capstone Seminar in Strategy

1 SEMESTER, 3 CREDITS

This course stresses the practice of strategic management in organizations. The focus is on strategic decision-making at the corporate, business, and functional levels. Business firms are examined within their respective industries for the purpose of developing and implementing strategies. The case method is the primary analytical tool. *Prerequisites:* ACC 103, FIN 207, MGT 110, 201, 210, 301, 310, 320, 330, 401, and MKT 205.

MGT 491 Independent Study in Management

1 SEMESTER, 1-3 CREDITS

Open to junior and senior management majors. The student is provided the opportunity to explore advanced topics in the management field. The number of credits is determined by consultation with the faculty member responsible for the project and the director. *Prerequisite:* *Permission of instructor.*

Contact Information

Phone: 401.865.2332

Fax: 401.865.2978

Location: Koffler Hall 115

The Faculty

Professors

John J. Breen, Ph.D., Emeritus

John J. Shaw, D.B.A.

Associate Professors

Cemal A. Ekin, Ph.D.

Daniel R. Horne, Ph.D.

Linda F. Jamieson, Ph.D.

Assistant Professors

Deirdre Bird, Ph.D., *Chairperson*

Helen M. Caldwell, Ph.D.

Piotr Chelminski, Ph.D.

Mark DeFanti, Ph.D.

Ronald L. Jelinek, Ph.D.

The Major

The Department of Marketing offers a program of study leading to the a bachelor of science degree.

Marketing costs absorb about half of each buyer's dollar, with its activities being performed in both business and nonprofit organizations, and on both a domestic and international stage. Marketing activities help businesses generate profits and help fuel the global economy. New technology has dramatically expanded marketers' ability to connect with customers and socially responsible marketing can promote the welfare of consumers and society.

Marketing involves an examination of the exchange processes by which consumers and organizations satisfy their wants and needs. Thus it requires an understanding of consumer behavior, motivation of sales personnel, the impact of advertising and promotion on potential consumers, cultural differences in the global marketplace, market research techniques, and the role of marketing on the Internet.

Success in marketing requires both quantitative and qualitative skills. Our program is designed to develop these skills through a broad-based business curriculum coupled with a functional knowledge of marketing. Our small class sizes offer students opportunities to interact regularly with faculty. Many classes have team projects, which develop in-

terpersonal and leadership skills. Effective oral and written communications are stressed throughout the program. Furthermore, excellent career opportunities are available to students through our marketing internship program.

The marketing program helps students become familiar with the marketing process and with the theoretical concepts, tools, and skills necessary to successfully enter and advance in the global marketing arena.

The following major requirements apply to the Classes of 2009, 2010, and 2011. Beginning with the Class of 2012, the marketing major requirements have changed. For more information on these requirements, please contact the School of Business directly or visit the Web site at: <http://www.providence.edu/Academics/School+of+Business/>.

Suggested Sequence: Marketing

<i>Freshman Sem. 1</i>			<i>Credits</i>
DWC 101	Devel of Western Civilization		5
MKT 205	Principles of Marketing		3
	Behavioral Science Elective ¹		3
	Non-Departmental Elective		3
<i>Freshman Sem. 2</i>			
DWC 102	Devel of Western Civilization		5
ACC 103	Financial Accounting		3
ECN	Economics Elective ²		3
	Non-Departmental Elective		3
<i>Sophomore Sem. 1</i>			
DWC 201	Devel of Western Civilization		5
MKT 335	Consumer Behavior		3
MGT 110	Mgt Info Systems		3
PHL	Philosophy Elective		3
<i>Sophomore Sem. 2</i>			
DWC 202	Devel of Western Civilization		5
	Mathematics—QBA 1 ³		3
ART	Fine Arts Elective		3
PHL	Ethics Elective ⁴		3
<i>Junior Sem. 1</i>			
MKT 336	Promotion Strategy		3
FIN 207	Managerial Finance		3
MGT 210	Business Communications		3
	Natural Science		3
	Non-Departmental Elective		3

<i>Junior Sem. 2</i>			
MKT 426	International Marketing		3
	Statistics—QBA 2 ⁵		3
MGT 330	Legal Env for Business I		3
	Natural Science Elective		3
	Free Elective		3
<i>Senior Sem. 1</i>			
MKT 434	Marketing Research		3
MKT	Marketing Elective		3
THL	Group I Elective		3
	Free Electives (2)		6
<i>Senior Sem. 2</i>			
MKT 440	Marketing Strategy		3
MKT	Marketing Elective		3
THL	Group 2 Elective		3
	Free Electives (2)		6

NOTES:

¹As part of the marketing curriculum, students are required to take one behavioral science course. This course may be in sociology, psychology, or cultural anthropology.

²Students are required to take one course in economics. Students typically take either micro- or macroeconomics. Our standing recommendation (not requirement) is that students take both micro- and macroeconomics.

³To fulfill the QBA 1 requirement, students must take MTH 108 or a higher-level course. MTH 107 is offered as part of a sequence of courses but it does not fulfill the QBA 1 requirement. If the student can handle it, a higher-level course in mathematics will prepare him/her for graduate work.

⁴The College requires that one of the philosophy courses be in ethics. As part of the business world, we recommend (not require) that you take Business Ethics. Due to limited availability of this course, however, students may have to take a different ethics course.

⁵QBA 2—Statistics requirement may be fulfilled by taking one of the following courses:

MGT 201	Business Statistics I
MTH 217	Introduction to Statistics

Statistics is a prerequisite for Marketing Research. Students who do not complete that course by the end of their junior year will not be able to take Marketing Research,

which is offered only once a year.

Recommendations

Prerequisites

Many courses in the curriculum have prerequisites. Students who do not complete the necessary prerequisites in time may not be able to take some critical courses in the program. In worst case, this may lead to the student not graduating with a marketing degree. Remember, students are responsible for knowing and completing the prerequisites.

Electives

Many courses offered by various departments will supplement the marketing curriculum. As general guidelines, students may consider the following options. Students should discuss their electives with their advisor in greater detail.

Plan how to use the electives rather than leaving them to chance and all for the senior year. Many students use their electives to study abroad or to obtain a minor in another field.

Consider taking two or more courses in behavioral sciences, such as sociology, psychology, or economics. A reasonable fluency in a foreign language may help the student in his/her marketing career in our multicultural world. Students who are interested in taking language courses should consult the language department.

The Courses

MKT 205 Principles of Marketing

I SEMESTER, 3 CREDITS

An introductory course that explores the elements of and decision areas in marketing as it relates to business as well as non-business organizations.

MKT 310 Personal Selling

I SEMESTER, 3 CREDITS

This course will teach the background concepts for professional selling applied from behavioral science and ethics. Creating long-term, mutually-rewarding relationships between buyer and seller will be explored. *Prerequisite:* MKT 205.

MKT 311 Sales Management

I SEMESTER, 3 CREDITS

This course examines the sales manager function as required to manage a field sales organization. Topics in-

clude selling strategies, planning, forecasting, budgeting, control; organizing, recruiting, hiring, training, compensating; territory design and management, sales quota techniques, performance evaluation; leadership, motivating, ethics; and accessing and using traditional and electronic secondary information sources. *Prerequisite:* MKT 205.

MKT 335 Consumer Behavior

I SEMESTER, 3 CREDITS

This course is designed to present an overall view of the factors influencing consumer action, consumerism, and current theories of consumer behavior based on factors such as motives, attitudes, dissonance, and psychological and social influences. *Prerequisite:* MKT 205.

MKT 336 Promotional Strategy

I SEMESTER 3 CREDITS

This course studies promotion as integrated marketing communications (IMC), its role in modern marketing, and its influence on consumer decision-making. IMC strategic planning combines the components of the promotional mix (advertising, public relations, direct marketing, sales promotion, personal selling, and Internet marketing) into a comprehensive program, sending an appropriate, consistent marketing message to target consumers. *Prerequisite:* MKT 335.

MKT 340 Marketing on the Internet

I SEMESTER, 3 CREDITS

This course explores the impact of the Internet on the practice of marketing. Through hands-on work, students will learn the dimensions of the Internet, its capabilities and limitations, and the basics of the communications technology that drive the Internet. As an integral part of the course, students learn Web site design and HTML document creation. *Prerequisite:* MKT 205.

MKT 344 Sports Marketing

I SEMESTER, 3 CREDITS

This course helps the student develop an extensive understanding of the sports marketing industry. In particular, emphasis is placed on learning how sports-related organizations serve their multiple constituencies. The course is designed to help students understand: 1) markets in general; 2) the structure of the sports industry; and 3) sports products and the consumers of those products. *Prerequisite:* MKT 205.

MKT 404 Advanced Advertising

I SEMESTER, 3 CREDITS

An advanced study of advertising with emphasis on current trends and issues. Special focus given to international advertising as well as an analysis of actual advertising campaigns and creative strategy. *Prerequisite:* MKT 336.

MKT 420 Business to Business Marketing

I SEMESTER, 3 CREDITS

This course explores the characteristics that differentiate industrial markets from consumer markets. The material presented is intended to look at challenges and problems faced in marketing goods and services to businesses and government markets. *Prerequisite:* MKT 205.

MKT 422 Retailing

I SEMESTER, 3 CREDITS

This course provides students with an understanding of important issues in today's complex retail environment. While traditional retailing concepts and theory are included, emphasis is placed on emerging sources of consumer-seller interaction, e.g., direct marketing and the Internet. This course strives to develop a set of analytical skills that are necessary for effective evaluation and analysis in retailing. *Prerequisite:* MKT 205.

MKT 423 Fashion Marketing

I SEMESTER, 3 CREDITS

This course offers students an opportunity to explore the field of fashion marketing, including an analysis of the industry from designing, manufacturing, and global sourcing to advertising, promotion, and retailing of fashion-related products. Due to the global nature of this field, the course includes extensive investigations of the international aspects of fashion marketing and licensing. *Prerequisite:* MKT 205.

MKT 425 Marketing for Not-for-Profit Organizations

I SEMESTER, 3 CREDITS

Although not highly visible, the not-for-profit sector of the economy is very substantial and the contribution of these organizations to society is highly significant. This course will explore the unique challenges that non-for-profit organizations face in marketing their "product" to multiple constituencies. *Prerequisite:* MKT 205.

MKT 426 International Marketing

I SEMESTER, 3 CREDITS

Marketing techniques and strategies for dealing with international markets are the focus of this course. Problems related to international marketing are studied with due consideration given to promotion, media, legal aspects, and cultural differences. *Prerequisite:* MKT 336.

MKT 434 Marketing Research

I SEMESTER, 3 CREDITS

This course studies research methodology and its application to the solution of marketing problems. Procedures and analytical tools are examined. *Prerequisites:* MKT 205 and either MGT 201, MTH 217, or PSY 302.

MKT 440 Marketing Strategy

I SEMESTER, 3 CREDITS

This course is the capstone course for marketing majors. While studying strategic marketing, students will integrate four years of learning marketing into a cohesive body of marketing knowledge. Concepts of strategy, strategic management, and strategic planning will be explored in the context of marketing. *Prerequisites:* MKT 336, 434, and FIN 207.

MKT 450 Internship

I SEMESTER, 3 CREDITS

The internship program allows students to engage in a minimum of 100 hours of professional work in a corporate or nonprofit environment for academic credit. Internships will be supervised by a sponsoring faculty member. *Prerequisite:* Permission of the instructor.

MKT 470 Special Topics in Marketing

I SEMESTER, 3 CREDITS

Open primarily to senior marketing majors, this course will permit students to effectively study and explore advanced topics in marketing. *Prerequisite:* Permission of the instructor.

MKT 490 Independent Study in Marketing

I SEMESTER, 3 CREDITS

An advanced seminar course in which students do individual research projects within a particular area of marketing and present a written and oral analysis. Topics studied will vary from year to year. *Prerequisite:* Permission of faculty member.

Mathematics and Computer Science

Contact Information

Phone: 401.865.2334

Fax: 401.865.1356

Location: Howley Hall 218

The Faculty

Professors

Clement L. DeMayo, Ph.D.

Richard B. Goldstein, Ph.D.

Stephen W. Schultz, Ph.D.

James J. Tattersall, Ph.D.

Associate Professors

Jeffrey T. Hoag, Ph.D., *Chairperson*

John R. King, M.A.

C. Joanna Su, Ph.D.

Linda M. Wilkens, D.Sc.

Assistant Professors

Gail A. Broome, M.S.

Richard H. Connelly, Ph.D.

Richard D. Derderian, M.S.

Liam A. Donohoe, Ph.D.

Francis P. Ford, M.A.

Wataru Ishizuka, Ph.D.

Ann D. O'Connell, M.A.

Instructor

Asta Shomberg, M.S. (Ph.D. Candidate)

The Major

Concentrations in three areas are available:

Mathematics

Computer Science

Mathematics/Secondary Education

The program of study outlined in the catalog lists all required concentration courses and indicates a typical sequence in which all requirements of the department and of the College can be satisfied. If possible, students should follow these outlines because special attention must be paid to satisfying prerequisites and because most courses are offered in only one semester of the academic year. Also, it is desirable to leave room in the last two or three semesters for some of the more advanced concentration electives.

However, students with special needs or goals can be accommodated by modifying these suggested programs of study. Students transferring to one of these concentrations after the freshman year, for example, might need an individualized program.

Students wishing to continue a study of a foreign language are encouraged to take the language in the freshman year and postpone the social science electives to a later year.

A student considering electives in his or her concentration should consult with an advisor. This is especially important in the case of research courses because these courses are offered only when students have expressed an interest in them.

Students in the mathematics concentration can take 12 free electives. These students have the opportunity and are so encouraged to choose electives that will give them a strong minor, one that will supplement their major in mathematics. Thoughtful selection of free electives may lead to interdisciplinary professions such as econometrics, biometrics, psychometrics, and operations research (applications of mathematics to management in both industry and government).

Of course, students interested in research in mathematics or in teaching at the college level are encouraged to prepare for graduate study by taking extra mathematics courses.

Mathematics/Secondary Education

Students in Mathematics/Secondary Education must add seven education courses to the 10 mathematics courses of the program. One of these, EDU 450, Student Teaching, is nine credits and is usually taken in the spring semester of the senior year. Because the student is off campus for most of the day during this semester, he or she must plan a program of study accordingly. Very often the student can put off to this eighth semester two courses that will be available in the evening through the School of Continuing Education. These students also must take MTH 309 Geometry and MTH 423 Mathematical Statistics as two of their electives. Real Analysis I & II and Geometry should be taken in the junior year since Real Analysis II is offered in the spring semester only.

Suggested Sequence: Mathematics

			Credits
<i>Freshman Sem. 1</i>			
DWC 101	Devel of Western Civilization		5
MTH 131	Calc & Analytical Geometry I		3
	Social Science Elective		3
	Free Elective		3
<i>Freshman Sem. 2</i>			
DWC 102	Devel of Western Civilization		5
MTH 132	Calc & Analytical Geometry II		3
	Social Science Elective		3
	Free Elective		3
<i>Sophomore Sem. 1</i>			
DWC 201	Devel of Western Civilization		5
MTH 223	Calc & Analytical Geometry III		3
	Natural Science Elective		3
CSC	Elective*		3-4
<i>Sophomore Sem. 2</i>			
DWC 202	Devel of Western Civilization		5
MTH 215	Linear Algebra		3
MTH 301	Foundations of Mathematics		3
	Natural Science Elective		3
<i>Junior Sem. 1</i>			
MTH 323	Real Analysis I		3
MTH 315	Abstract Algebra I		3
PHL/THL	Philosophy/Theology Elective		3
	Free Elective		3
	Non-Departmental Elective		3
<i>Junior Sem. 2</i>			
MTH 324	Real Analysis II		3
MTH	Math Elective**		3
PHL/THL	Philosophy/Theology Elective		3
	Free Elective		3
	Non-Departmental Elective		3
<i>Senior Sem. 1</i>			
	Fine Arts		3
PHL/THL	Philosophy/Theology Elective		3
	Free Electives (2)		6
	Non-Departmental Elective		3
<i>Senior Sem. 2</i>			
MTH	Math Elective**		3
PHL/THL	Philosophy/Theology Elective		3
	Free Electives (3)		9

*The Computer Science elective must be chosen from CSC 103, 104, or any CSC course numbered higher than 200.

**Mathematics electives must be chosen from the 300 or 400 series.

NOTE: This is a suggested schedule that fulfills the core and major requirements of the College and the Department of Mathematics/Computer Science. A student may vary the schedule as long as he or she fulfills the requirements.

Suggested Sequence: Computer Science

			Credits
<i>Freshman Sem. 1</i>			
DWC 101	Devel of Western Civilization		5
CSC 103	Computer Science I		4
MTH 117	Discrete Math		3
	Social Science Elective		3
<i>Freshman Sem. 2</i>			
DWC 102	Devel of Western Civilization		5
CSC 104	Computer Science II		4
MTH 131	Calc & Analytical Geometry I		3
	Natural Science Elective		3
<i>Sophomore Sem. 1</i>			
DWC 201	Devel of Western Civilization		5
CSC 225	Discrete Structures		4
MTH 132	Calc & Analytical Geometry II		3
	Natural Science Elective		3
<i>Sophomore Sem. 2</i>			
DWC 202	Devel of Western Civilization		5
CSC 230	Assembler Language		3
	Free Elective		3
	Natural Science Elective		3
<i>Junior Sem. 1</i>			
CSC 387	Computer Architecture		3
MTH 423	Math Statistics I		3
PHL/THL	Philosophy/Theology Elective		3
	Free Elective		3
	Non-Departmental Elective		3
<i>Junior Sem. 2</i>			
CSC	CSC elective *		3
MTH 215	Linear Algebra		3
PHL/THL	Philosophy/Theology Elective		3
	Free Elective		3
	Non-Departmental Elective		3

Senior Sem. 1

CSC 440	Numerical Analysis I	3
CSC 445	Operating Systems	3
PHL/THL	Philosophy/Theology Elective	3
	Fine Arts	3
	Non-Departmental Elective	3

Senior Sem. 2

CSC	CSC elective *	3
PHL/THL	Philosophy/Theology Elective	3
	Free Electives (3)	9

*CSC electives must be chosen from the 300 or 400 series.

NOTE: This is a suggested schedule that fulfills the core and major requirements of the College and the Department of Mathematics/Computer Science. A student may vary the schedule as long as he or she fulfills the requirements.

Suggested Sequence: Mathematics/Secondary Education

Freshman Sem. 1

		Credits
DWC 101	Devel of Western Civilization	5
MTH 131	Calc & Analytical Geometry I	3
EDU 201	Educational Psychology	3
	Social Science Elective	3

Freshman Sem. 2

DWC 102	Devel of Western Civilization	5
MTH 132	Calc & Analytical Geometry II	3
	Fine Arts Elective	3
	Social Science Elective	3

Sophomore Sem. 1

DWC 201	Devel of Western Civilization	5
MTH 223	Calc & Analytical Geometry III	3
	Natural Science Elective	3
PHL	Philosophy Elective	3

Sophomore Sem. 2

DWC 202	Devel of Western Civilization	5
EDU 206	Principles of Secondary Ed	3
EDU 206L	Principles of Secondary Ed Lab	1
MTH 215	Linear Algebra	3
MTH 301	Foundations of Math	3

Junior Sem. 1

MTH 323	Real Analysis I	3
MTH 315	Abstract Algebra I	3
CSC	CSC Elective*	3-4
EDU 401	Educational Measurement	3
EDU 401L	Educational Measurement Lab	1
	Natural Science Elective	3

Junior Sem. 2

MTH 324	Real Analysis II	3
MTH 309	Geometry	3
EDU 303	Child w Spec Needs in Reg. Class	3
EDU 303L	Child w Spec Needs in Reg. Class Lab	1
THL	Theology Elective	3
	Free Elective	3

Senior Sem. 1

MTH 423	Mathematical Statistics I	3
EDU 301	Foundations of Education	3
EDU 416	Teaching Math in Secondary School	3
EDU 416L	Teach Math in Sec School Field Exp	1
	Free Electives (2)	6

Senior Sem. 2

EDU 450	Student Teaching	9
PHL	Philosophy Elective	3
THL	Theology Elective	3

*The computer science elective must be chosen from CSC 103, 104, or any CSC course numbered higher than 200.

NOTE: This is a suggested schedule that fulfills the core and major requirements of the College and the Department of Mathematics/Computer Science. A student may vary the schedule as long as he or she fulfills the requirements.

The Minors

Required Courses: Mathematics

i. One of the following courses:

MTH 131 Calculus and Analytical Geometry I

1 SEMESTER, 3 CREDITS

OR

MTH 109 Calculus I

1 SEMESTER, 3 CREDITS

2. One of the following courses:
 - MTH 132 Calculus and Analytical Geometry II
I SEMESTER, 3 CREDITS
 - OR
 - MTH 110 Calculus II
I SEMESTER, 3 CREDITS
3. MTH 301 Foundations of Mathematics
I SEMESTER, 3 CREDITS
4. Any three (3) math courses numbered 200 or higher with at least one numbered 300 or higher.

Required Courses: Computer Science: Business Programming

1. MTH 117 Discrete Mathematics
I SEMESTER, 3 CREDITS
2. CSC 103 Computer Science I
I SEMESTER, 4 CREDITS
3. CSC 104 Computer Science II
I SEMESTER, 4 CREDITS
4. CSC 225 Discrete Data Structures
I SEMESTER, 4 CREDITS
5. Two of the following courses:
 - CSC 111 COBOL
I SEMESTER, 3 CREDITS
 - CSC 424 Database Management Systems
I SEMESTER, 3 CREDITS
 - CSC 433 Computer Network
I SEMESTER, 3 CREDITS

Required Courses: Computer Science: Technical

1. MTH 117 Discrete Mathematics
I SEMESTER, 3 CREDITS
2. CSC 103 Computer Science I
I SEMESTER, 4 CREDITS
3. CSC 104 Computer Science II
I SEMESTER, 4 CREDITS
4. CSC 225 Discrete Data Structures
I SEMESTER, 4 CREDITS
5. CSC 230 Assembler Language
I SEMESTER, 3 CREDITS
6. One of the following courses:
 - CSC 387 Computer Architecture
I SEMESTER, 3 CREDITS
 - OR
 - CSC 445 Operating Systems
I SEMESTER, 3 CREDITS

The Courses: Mathematics

MTH 105 Introduction to Mathematical Methods

I SEMESTER, 3 CREDITS (Mathematics Core)

This course is designed to introduce the student with a minimum math background to the problem solving process within relevant mathematical areas. Topics will be selected from mathematical logic, the problem solving process, probabilistic models, statistical inference, consumer mathematics, and basic computer programming.

MTH 107 Mathematics for Business Analysis I

I SEMESTER, 3 CREDITS (Mathematics Core)

A basic introduction to the properties and applications of functions, linear systems, and probability for students in business and the social sciences. Topics include linear equations and inequalities, functions, graphs, solving systems of simultaneous linear equations, matrices, probability, mathematics of finance, and an introduction to differential calculus.

MTH 108 Mathematics for Business Analysis II

I SEMESTER, 3 CREDITS (Mathematics Core)

A basic introduction to the properties and application of calculus for students in business and social sciences. Topics include differentiation, integration, and the logarithmic and exponential functions.

MTH 109 Calculus I

I SEMESTER, 3 CREDITS (Mathematics Core)

An introduction to the basic theory of differential and integral calculus with applications in the biological and social sciences. This course introduces students to one-variable calculus and covers topics in limits and differentiation. The emphasis is on applications of calculus to problems in the biological and social sciences. Not open to students with credit in MTH 131.

MTH 110 Calculus II

I SEMESTER, 3 CREDITS (Mathematics Core)

A continuation of MTH 109. This course covers topics in integration in one-variable calculus and gives an introduction to the calculus of functions of two variables. Not open to students with credit in MTH 132.

MTH 117 Discrete Mathematics

I SEMESTER, 3 CREDITS (Mathematics Core)

This course is designed to introduce the student to the various discrete topics needed for the study of computer science. These topics include set theory, function theory,

logic, proof theory, combinatorics, induction, recursion, the algorithmic process, algebraic structures, and graph theory.

MTH 131 Calculus and Analytical Geometry I

I SEMESTER, 3 CREDITS (Mathematics Core)

Required for mathematics, EPS, and chemistry & biochemistry majors. Applications and underlying ideas of one-variable differential calculus of algebraic, exponential, logarithmic and trigonometric functions. More theoretical approach than MTH 109. *Not open to students with credit in MTH 109.*

MTH 132 Calculus and Analytical Geometry II

I SEMESTER, 3 CREDITS (Mathematics Core)

This course is required for all mathematics, EPS, and chemistry & biochemistry majors. A continuation of MTH 131. The main topics are integration, sequences, and series, and applications of integration. *Not open to students with credit in MTH 110.*

MTH 215 Linear Algebra

I SEMESTER, 3 CREDITS

A systematic study of the basic concepts of linear algebra. Topics include systems of linear equations, matrices, determinants, finite dimensional vector spaces, linear transformation, eigenvalues, eigenvectors, and diagonalization.

MTH 217 Introduction to Statistics

I SEMESTER, 3 CREDITS

An introductory course for the student interested in applications of statistical methods. Topics include probability, sampling, estimation, hypothesis testing, variance analysis, correlation, and regression.

MTH 223 Calculus and Analytical Geometry III

I SEMESTER, 3 CREDITS (Mathematics Core)

This course is required for all mathematics, EPS, and chemistry majors, and is recommended for biochemistry majors. A continuation of MTH 132. The main topic is multivariable calculus. *Prerequisite: MTH 132.*

MTH 301 Foundations of Mathematics

I SEMESTER, 3 CREDITS

This course is designed to aid the student in the transition from calculus to the study of advanced courses in mathematics. Topics in logic, set theory, relations, functions, cardinality, and algebra will be discussed. Emphasis will be placed on the rigorous deductive process pervasive

in the study of mathematics. *Prerequisite: Calculus or permission of instructor.*

MTH 302 Topics in Mathematical Logic

I SEMESTER, 3 CREDITS

An introduction to aspects of logic appropriate to both the mathematics and computer science student. Topics in propositional and predicate logic, formal theories, computability, and metamathematics will be discussed. *Prerequisite: Calculus or permission of instructor.*

MTH 304 Differential Equations

I SEMESTER, 3 CREDITS

Theory of linear differential equations and methods of solution, including series and transforms. *Prerequisite: MTH 223.*

MTH 307 Combinatorial Theory

I SEMESTER, 3 CREDITS

An introduction into the basic techniques of combinatorial mathematics including fundamental enumeration principles and algebraic counting techniques.

MTH 309 Geometry

I SEMESTER, 3 CREDITS

This course aims to familiarize the student with the principles of deductive reasoning through geometry. Topics include a review of the basic concepts encountered in Euclidean geometry and an historical development of non-Euclidean geometry.

MTH 315 Abstract Algebra I

I SEMESTER, 3 CREDITS

Topics include: basic properties of groups, Cayley tables, finite and infinite groups, abelian and non-abelian groups, subgroups, cyclic groups, symmetric and dihedral groups, matrix groups, group isomorphisms, group homomorphisms, Lagrange's theorem, normal subgroups and factor groups, the First Isomorphism Theorem, direct products. *Prerequisites: MTH 215 and 301.*

MTH 316 Abstract Algebra II

I SEMESTER, 3 CREDITS

Topics include: properties of rings, integral domains, rings with non-zero characteristic, ring homeomorphisms, polynomial rings, ideals, principal ideal domains, prime and maximal ideals, factor rings, factoring polynomials, unique factorization domains, Euclidean domains, introduction to field extensions and finite fields. *Prerequisite: MTH 315.*

MTH 317 Number Theory

I SEMESTER, 3 CREDITS

An investigation into the basic properties of the integers. Topics include sums of squares, divisibility, the Chinese remainder theorem, and quadratic reciprocity law.

MTH 323 Real Analysis I

I SEMESTER, 3 CREDITS

Axioms for the real numbers, topology of the real numbers, Heine-Borel theorem, Bolzano-Weierstrass theorem, continuous and uniformly continuous functions, extreme and intermediate value theorems, differentiable functions, mean value theorem, Taylor's theorem. *Prerequisite:* MTH 110, MTH 132, or MTH 223 and MTH 301.

MTH 324 Real Analysis II

I SEMESTER, 3 CREDITS

A continuation of MTH 323. Riemann integral, fundamental theorem of calculus, sequences and series of functions, topology of Euclidean space, differentiation and integration in Euclidean space, inverse function theorem. *Prerequisite:* MTH 323.

MTH 331 Graph Theory

I SEMESTER, 3 CREDITS

An introduction into the fundamental techniques and basic concepts of graph theory. Topics include enumeration, connectivity, colorability, traversability, and external problems.

MTH 390-391 Independent Study in Mathematics

I SEMESTER, 3 CREDITS

An area of mathematics that is of interest to the student is pursued under the direction of a faculty member. *Prerequisite:* Permission of instructor.

MTH 395-396 Research

2 SEMESTERS, 3 CREDITS EACH

In this course, the student has the opportunity to investigate in detail an area or topic in mathematics. Both the topic and instructor(s) should be selected by the student. *Prerequisite:* Permission of the instructor(s) whose guidance is sought.

MTH 409 Introduction to General Topology

I SEMESTER, 3 CREDITS

The axiom of Choice and its equivalences, metric and topological spaces, compactness, connectedness, separa-

tion, continuous maps and their invariants, the structure of $C(X, \mathbb{R})$, the Stone-Cech Compactification, and the Stone-Weierstrass Approximation theorems. *Prerequisites:* MTH 324 and permission of the instructor.

MTH 410 Introduction to Functions of a Complex Variable

I SEMESTER, 3 CREDITS

The structure of the complex field, differentiation, the line integral and its applications, series, and conformal mappings are studied. *Prerequisites:* MTH 223 and permission of the instructor.

MTH 417 Topics in Applied Mathematics

2 SEMESTERS, 3 CREDITS EACH

Selected topics in advanced calculus and applied mathematics, including topics in partial differential equation, Fourier series, probability, and numerical methods. *Prerequisite:* MTH 223.

MTH 423 - 424 Probability Theory and Mathematical Statistics I and II

2 SEMESTERS, 3 CREDITS EACH

An introduction to probability theory and mathematical statistics. Includes a discussion of various probability distributions and their moments, limit theorems, classical and Bayesian inference and estimation, regression, correlation, and non-parametric methods. *Prerequisite:* MTH 223.

MTH 435 History of Mathematics

I SEMESTER, 3 CREDITS

An introduction to the history of mathematics, beginning with the origin of mathematics in the great civilizations of antiquity and continuing thru 17th century Europe. *Prerequisite:* One year of calculus.

MTH 440 Numerical Analysis I

I SEMESTER, 3 CREDITS

Applications of the digital computer to solutions of problems. Topics included are solutions to non-linear equations, polynomial interpolation and approximation, numerical differentiation and integration, and curve fitting. *Same as* CSC 440. *Prerequisite:* MTH 110 or 132.

MTH 450 Internship

I SEMESTER, 3 CREDITS

Prerequisite: Permission of chairperson required.

MTH 490-491 Independent Study in Mathematics

1 SEMESTER, 3 CREDITS

An area of mathematics that is of interest to the student is pursued under the direction of a faculty member. This work will either be a continuation of MTH 390-391 or will assume a prerequisite of a mathematics course at the 300 or higher level. *Prerequisite: Permission of instructor.*

MTH 495 - 496 Research

2 SEMESTERS, 3 CREDITS EACH

A continuation of MTH 395-396.

The Courses: Computer Science**CSC 101 Introduction to Programming and Data Processing**

1 SEMESTER, 3 CREDITS

This is a terminal course intended to introduce the student to the programming language BASIC and to popular software such as spreadsheets, word processing, and database management.

CSC 103 Computer Science I

1 SEMESTER, 4 CREDITS

This course will introduce the student to digital computer concepts and technical skills. It is intended for students in a technical discipline and those who plan to continue the study of computer science. This course will meet four hours a week, including one hour in the computer lab.

CSC 104 Computer Science II

1 SEMESTER, 4 CREDITS

In this course, advanced computer science theories will be investigated using a high-level structured computer language. This course will meet four hours a week, including one hour in the computer lab. *Prerequisites: CSC 103 and MTH 108, 110, or 131.*

CSC 111 COBOL

1 SEMESTER, 3 CREDITS

This course is an introduction to COBOL, the major language used in business and data processing. *Prerequisite: CSC 101, CSC 103, or MGT 110.*

CSC 180 Computers in Education

1 SEMESTER, 3 CREDITS

An introduction to computers for the prospective teacher. Topics include the terminology and history of computers

and the use of computers as a tutor, as a tool for administrative tasks, and as an aid in problem solving.

CSC 225 Discrete Data Structures

1 SEMESTER, 4 CREDITS

This course is intended to introduce the student to a variety of data structure representations. Program efficiency is directly related to choosing the correct form of data representation. Topics include stacks, queues, linked lists, trees, and graphs. Implementation issues are covered thoroughly. This course will meet four hours a week, including one hour in the computer lab. *Prerequisite: CSC 104.*

CSC 230 Assembler Language

1 SEMESTER, 3 CREDITS

This course is intended to develop the knowledge and skill necessary to program with facility using the non-privileged instruction set of the ASSEMBLER language of a third-generation byte-oriented system. It is intended for those desiring a depth of knowledge in the internal instruction and operations of the computer. *Prerequisite: CSC 104.*

CSC 387 Computer Architecture

1 SEMESTER, 3 CREDITS

Introduction to digital systems, covering both combinatorial and sequential circuits. The digital concepts will be introduced at the digital component level and the systems level, allowing the student to gain a better understanding of computer organization. Topics include Boolean Algebra, timing considerations, design techniques, and hardware organization in general. Microprocessor and microprogramming operations will be discussed. *Prerequisite: CSC 230.*

CSC 395-396 Research

2 SEMESTERS, 3 CREDITS EACH

In these courses, the student has the opportunity to investigate in detail an area or topic in computer science. Both the topic and instructor(s) should be selected by the student. *Prerequisite: Permission of the instructor(s) whose guidance is sought.*

CSC 410 Artificial Intelligence

1 SEMESTER, 3 CREDITS

Problem solving techniques, game playing, data structure representations, tree searching strategies, and predicated calculus are among the basic topics discussed. A conceptual understanding of the basic topics will allow the stu-

dent to progress to the more advanced areas of AI. If time permits, some of the more advanced topics will be surveyed. *Prerequisite:* CSC 225.

CSC 424 Database Management Systems

I SEMESTER, 3 CREDITS

The student is introduced to concepts and structures necessary to design and implement a database management system. Topics include data models, data normalization, data integrity, file organization, and file security. *Prerequisite:* CSC 225.

CSC 428 Computer Graphics

I SEMESTER, 3 CREDITS

This course introduces software techniques and data structures used to implement interactive computer graphics applications. The student will become familiar with both hardware and software components used in graphics. Using a high-level language, the student will implement a collection of graphics procedures that incorporate the ideas of one of the field's main graphics standards. *Prerequisite:* CSC 104.

CSC 433 Computer Networks

I SEMESTER, 3 CREDITS

This course is an overview of the theory of computer networks based on the OSI and TCP/IP models. The course

analyzes network algorithms based on international standards and the problems that have to be solved in developing standards. *Prerequisite:* CSC 225.

CSC 440 Numerical Analysis I

I SEMESTER, 3 CREDITS

Applications of the digital computer to solutions of problems. Topics included are solutions to non-linear equations, polynomial interpolation and approximation, numerical differentiation and integration, and curve fitting. *Same as MTH 440. Prerequisite:* MTH 110 or 132.

CSC 445 Operating Systems

I SEMESTER, 3 CREDITS

Management of core memory and peripheral device allocation including job schedules, input-output schedules, and swapping overlay management in a multi-programming environment will be discussed. *Prerequisite:* CSC 225.

CSC 450 Internship

I SEMESTER, I-3 CREDITS

Prerequisite: Permission of the chairperson.

CSC 495-496 Research

2 SEMESTERS, 3 CREDITS EACH

A continuation of CSC 395-396.

Military Science

Contact Information

Phone: 401.865.2471

Fax: 401.865.2908

Location: Alumni Hall 164

Faculty

Professor

Maj. Matthew R. McKinley, M.S.

Assistant Professors

Maj. Neal H. Gouck, B.S.

Lt. Col. Christopher Houston, M.S.

Instructors

Sgt. Maj. Gary Fortunato, B.A.

Maj. Matthew N. Porter, B.S.

The Program

In a cooperative association between Providence College and the U.S. Army Cadet Command, Reserve Officer Training Corps (ROTC), military science is offered as part of the elective curriculum of the College. The curriculum is divided into two parts: the Basic Leadership Program (freshmen and sophomores) and the Advanced Leadership Program (juniors and seniors). Students may enroll in the Basic Leadership Program (100 or 200 course offerings) without any obligation to serve in the military. Those students who do commit and contract into the Advanced Leadership Program (juniors and seniors) are eligible to pursue a commission as an Army second lieutenant.

The goals of the Department of Military Science are to provide instruction and hands-on experience in leadership, management, and organization in the dynamics of the small group environment. Today's leader is faced with a myriad of challenges and ever-changing situations. To prepare for these challenges, the student will receive classroom instruction concentrating on the various leadership and management techniques. However, most instruction will concentrate on experiential learning. Students are placed in leadership positions and expected to lead and motivate, solve problems, plan and execute

tasks, prioritize resource allocation, conduct physical fitness training, and evaluate performance. This hands-on experience is the foundation for development of successful leadership in the business, academic, and military communities, and dominates the student's junior- and senior-year military science curriculum. This empirical educational experience culminates with a 35-day summer leadership practicum at Fort Lewis, Wash., (all expenses paid). Undertaken between the student's junior and senior years, this camp evaluates the student's leadership development to date and sets the blueprint for continued development during the senior year, culminating in a commission as a U.S. Army second lieutenant.

The military science curriculum provides the opportunity for students to experience diversified course offerings that augment the military science courses. The purpose is to ensure a well-rounded student who is fully prepared to meet the rigors and challenges of a professional leader. The required subjects are written communications, American Military History, and computer literacy. Additionally, a semester of a foreign language is strongly encouraged. These courses are available through the College's course offerings.

A variety of programs provide financial and increased leadership incentives:

Academic scholarships are available to qualified freshmen and sophomores. These scholarships provide full tuition, \$900 per year for books and supplies, and a \$350-\$500 per school month stipend.

All students contracted into the Advanced Leadership Program (juniors and seniors) receive a \$400-\$500 per school month stipend.

Simultaneous Membership Program (SMP): This is a dual leadership program that provides the student with the benefit of increased leadership and management experience.

Suggested Sequence

The normal order in which the minimum required courses should be taken is as follows:

	Credits
<i>Freshman Sem. 1</i>	
MIL 101 Fund of Leadership I (with lab)	3
<i>Freshman Sem. 2</i>	
MIL 102 Fund of Leadership II (with lab)	3
<i>Sophomore Sem. 1</i>	
MIL 201 Prin of Military Leadership I (with lab)	3
<i>Sophomore Sem. 2</i>	
MIL 202 American Military History	3
MIL 203 Prin of Military Leadership II (with lab)	3
<i>Junior Sem. 1</i>	
MIL 301 Small Unit Leadership I (with lab)	3
<i>Junior Sem. 2</i>	
MIL 302 Small Unit Leadership II (with lab)	3
<i>Senior Sem. 1</i>	
MIL 401 Leadership and Management I (with lab)	3
<i>Senior Sem. 2</i>	
MIL 402 Leadership and Management II (with lab)	3

The Courses

MIL 101 Fundamentals of Leadership I with Lab

I SEMESTER, 3 CREDITS

Introduces students to fundamental components of service as an officer in the U.S. Army. These initial lessons form the building blocks of progressive lessons in values, fitness, leadership, and officership. Additionally, the course addresses “life skills,” including fitness, communications theory and practice (written and oral), and interpersonal relationships.

MIL 102 Fundamentals of Leadership II with Lab

I SEMESTER, 3 CREDITS

Builds upon the fundamentals introduced in the previous course by focusing on leadership theory and decision-making. “Life skills” lessons in this course include problem solving, critical thinking, leadership theory, followership, group interaction, goal setting, and feedback mechanisms. *Prerequisite: MIL 101.*

MIL 201 Principles of Military Leadership I with Lab

I SEMESTER, 3 CREDITS

Contains the principal leadership instruction of the Basic Program. Building upon the fundamentals introduced in the MIL 101-102 courses, this instruction delves into several aspects of communication and leadership theory. Virtually the entire semester teaches critical “life skills,” and the integration of practical exercises is significantly increased to facilitate comprehension. The course culminates with a major leadership and problem-solving case study. *Prerequisite: MIL 102.*

MIL 202 American Military History

I SEMESTER, 3 CREDITS

Using lecture and small group discussions, this course is a survey of the American military experience from the Colonial wars to Desert Storm. The instruction analyzes the policies, strategies, and tactics of three centuries of military history. These events are analyzed using the conventional discipline of historical methodology and the classical norms of the principles of warfare. *Same as HIS 202. Prerequisite: MIL 201.*

MIL 203 Principles of Military Leadership II with Lab

I SEMESTER, 3 CREDITS

The final semester of the Basic Program focuses principally on officership and examination of the unique purpose, roles, and obligations of commissioned officers. Includes a review of the origin of our institutional values and their practical application. The Capstone Case Study in Officership analyzes the Army’s successes and failures as it evolved from the Vietnam War to present. *Prerequisite: MIL 202.*

MIL 301 Small Unit Leadership I with Lab

I SEMESTER, 3 CREDITS

Intended to build leadership and facilitate the cadet’s initial demonstration of individual leadership potential at the Leadership Development and Assessment Course. Leadership positions during labs and small unit operations, and instruction in the principles of war provide the necessary knowledge base to address motivational theory and techniques, the role and actions of leaders, and risk assessment. *Prerequisite: MIL 203.*

Modern Languages

MIL 302 Small Unit Leadership II with Lab

I SEMESTER, 3 CREDITS

Focuses on doctrinal leadership and tactical operations at the small-unit level. It includes opportunities to plan, resource, and conduct individual and collective training while adhering to U.S. Army doctrinal concepts to gain leadership and tactical experience. Synthesizes the components of training, leadership, and team-building, ensuring cadets possess confidence and competence of leadership in a small-unit setting. *Prerequisite:* MIL 301.

MIL 401 Leadership and Management I with Lab

I SEMESTER, 3 CREDITS

Concentrates on leadership, management, and ethics and begins the final transition from cadet to lieutenant. The course focuses cadets on attaining knowledge and proficiency in several critical areas they will need to operate effectively as Army officers. These areas include: coordinating activities with staffs, counseling theory, and practice within the “Army context,” training management, and ethics. *Prerequisite:* MIL 302.

MIL 402 Leadership and Management II with Lab

I SEMESTER, 3 CREDITS

The final semester focuses on completing the transition from cadet to lieutenant. Begins with a foundation in the legal aspects of decision-making and leadership. The next module introduces how the Army organizes for operations from the tactical to strategic level. The capstone exercise requires cadets to apply their knowledge to solve problems commonly faced by junior officers. *Prerequisite:* MIL 401.

Contact Information

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The Faculty

Professors

Simone C. Ferguson, Ph.D.

Laurent Gousie, Ph.D.

Rev. Leonard P. Hindsley, Ph.D.

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John B. Margenot III, Ph.D.

Giacomo A. Striuli, Ph.D.

Associate Professors

Nuria Alonso García, Ph.D., *Chairperson*

Salvatore Cappelletti, Ph.D.

Roger B. Carmosino, Ph.D.

Assistant Professors

Lydia M. Barovero, Ph.D.

Alison Caplan, Ph.D.

Raymond W. Lavallée, Ph.D.

Edgar Mejía, Ph.D.

The Program

The Department of Modern Languages enhances the mission of the College by offering to all Providence College students the opportunity to study foreign languages and cultures as an integral part of their liberal arts education. Knowledge of a foreign language is essential for full and active participation in the global community, an asset in every field of endeavor, and a requirement for graduate study in many disciplines.

A student may elect a major in French, Italian, or Spanish as well as a major in conjunction with the Department of Education in preparation for a career as a foreign language teacher at the secondary level. Students may choose to declare a double major, linking their language major with a major in another field, such as political science, art history, global studies, management, biology, and others. Students may elect to minor in German, French, Italian, or Spanish to complement their major field of study and thereby strengthen their employment potential. In addition, specially designed programs of language study can be created to suit the needs of individual students.

As part of its programs, the Department of Modern Languages strongly encourages students to study abroad and offers advice on summer, semester, or academic-year language programs worldwide.

The Major

A major in a modern language requires the successful completion of 30 credits/semester hours of course work in the target language at the 200 level and above, including those courses specified as “required for the major,” which include 201, 210, 212, 321, 322, and five additional courses above 300, of which at least two must be in literature at the 400 level.

The Minor

A minor is fulfilled by the successful completion of 18 credits/semester hours of course work in the target language, in a progressive sequence beginning at a level determined by the department to be appropriate for each individual student.

An online placement test is available to incoming freshmen during Summer Orientation.

Courses are conducted in the target language unless specified otherwise.

Suggested Sequence: Modern Languages

			Credits
<i>Freshman Sem. 1</i>			
DWC	101	Devel of Western Civilization	5
LNG	201	Major Language	3
OR			
LNG	210	Major Language	
		Social Science Elective	3
		Free Elective	3
<i>Freshman Sem. 2</i>			
DWC	102	Devel of Western Civilization	5
LNG	201	Major Language	3
OR			
LNG	210	Major Language	
		Social Science Elective	3
		Free Elective	3
<i>Sophomore Sem. 1</i>			
DWC	201	Devel of Western Civilization	5
		Natural Science Elective	3
LNG	212	Major Language (FA)	3
		Free Elective	3

Sophomore Sem. 2

DWC	202	Devel of Western Civilization	5
		Natural Science Elective	3
LNG	321	Major Language	3
		Free Elective	3

Junior Sem. 1

LNG	322	Major Language Lit	3
PHL		Philosophy Elective (Ethics)	3
MTH		Math Elective	3
		Non-Departmental Electives (2)	6

Junior Sem. 2

LNG	300	Major Language Elective	3
PHL		Philosophy Elective	3
		Free Elective	3
		Non-Departmental Electives (2)	6

Senior Sem. 1

LNG	400	Major Language Lit.	3
LNG	300/400	Major Language Elective	3
THL		Theology Elective (Group I)	3
		Non-Departmental Electives (2)	6

Senior Sem. 2

LNG	400	Major Language Lit.	3
LNG	300/400	Major Language Elective (2)	6
THL		Theology Elective (Group II)	3
		Non-Departmental Elective (2)	6

Suggested Sequence: Modern Language/Secondary Education

			Credits
<i>Freshman Sem. 1</i>			
DWC	101	Devel of Western Civilization	5
LNG	201	Major Language	3
OR			
LNG	210	Major Language	
EDU	201	Educational Psychology	3
		Free Elective	3
<i>Freshman Sem. 2</i>			
DWC	102	Devel of Western Civilization	5
LNG	201	Major Language	3
OR			
LNG	210	Major Language	
MTH		Math Elective	3
		Natural Science Elective	3

Sophomore Sem. 1

DWC	201	Devel of Western Civilization	5
		Social Science Core	3
LNG	212	Major Language (Fine Arts Core)	3
		Free Elective	3

Sophomore Sem. 2

DWC	202	Devel of Western Civilization	5
		Social Science Core	3
LNG	321	Major Language Lit.	3
EDU	206	Principles of Secondary Ed	3
EDU	206L	Principles of Secondary Ed Lab	1

Junior Sem. 1

LNG	322	Major Language Lit	3
LNG	300	Major Language Elective	3
EDU	401	Educational Measurement	3
EDU	401L	Educational Measurement Lab	1
PHL		Philosophy Elective (Ethics)	3
THL		Theology Elective (Group I)	3

Junior Sem. 2

LNG	300/400	Major Language Elective	3
LNG	400	Major Language Lit	3
EDU	303	Child w Spec Needs in Reg Class	3
EDU	303L	Child w Spec Needs in Reg Class Lab	1
PHL		Philosophy Elective	3
		Free Elective	3

Senior Sem. 1

LNG	300/400	Major Language Elective	3
LNG	400	Major Language Lit	3
THL		Theology Elective (Group II)	3
		Natural Science Elective	3
EDU	415	Teaching Mod Lang in Sec School	3
EDU	415L	Teach Mod Lan in Sec Schl Field Exp	1

Senior Sem. 2

EDU	301	Foundations of Education	3
		Free Elective	3
EDU	450	Student Teaching	9

The Courses

French

Courses are conducted in the target language unless specified otherwise.

FRN 101 Elementary French I

I SEMESTER, 3 CREDITS

This course is designed to introduce the French language to students who have no previous experience with the language. The course is communication-centered and develops oral, aural, reading, and writing skills concurrently. The active learning approach emphasizes pronunciation, vocabulary, and grammatical structures in the context of improving student's oral and written expression.

FRN 102 Elementary French II

I SEMESTER, 3 CREDITS

A continuation of French 101, this course also is appropriate for students who have previously studied French but are not prepared to resume study of the language at the intermediate level. The course emphasizes pronunciation, vocabulary building, and practice of fundamental grammar points. The format of this course is designed to improve students' oral and written expression skills.

FRN 103 Intermediate French I

I SEMESTER, 3 CREDITS

Designed to further improve students' oral and written communication skills through the introduction of more complex grammar points and the acquisition of more extensive vocabulary. Class discussions and essay topics related to cultural and contemporary issues provide opportunity for students to express themselves with more sophisticated and individual style.

FRN 104 Intermediate French II

I SEMESTER, 3 CREDITS

The objective of this course is to provide students the opportunity to practice, in speaking and in writing, more complex and nuanced linguistic elements in order to achieve a more advanced level of expression. Regular writing assignments and class discussions based on a variety of texts enhance students' ability to express themselves clearly and intelligently.

FRN 201 French Composition

I SEMESTER, 3 CREDITS

Development of more sophisticated reading and writing skills, with emphasis on accuracy of expression and development of personal style through practice of complex grammatical structures and several types of writing: description, narration, expression of opinions and others. Introduction to literary terminology and practice of literary analysis through examination of texts from various genres, with particular attention to stylistic techniques.

FRN 210 Conversational French

I SEMESTER, 3 CREDITS

Designed for students who aspire to engage in normal conversation with confidence, ease, and near-native fluency. Classes are discussion-centered, based on readings and CD's on topics of interest to students, and emphasize listening skills, intonation, pronunciation, speech patterns, and conversational strategies.

FRN 212 French Civilization

I SEMESTER, 3 CREDITS (Fine Arts Core)

This course examines the development of French civilization from the perspective of the arts as catalyst and mirror of the changes that transformed an occupied Roman territory into a major political and cultural force of the 21st century. Course includes museum visits as well as individual and collaborative projects.

FRN 304 French Culture

I SEMESTER, 3 CREDITS

A study of contemporary French society through analysis of French customs, values, attitudes, expectations, and responses to various situations and events.

FRN 307 French for Business

I SEMESTER, 3 CREDITS

Intended primarily for students considering careers in international business or foreign service, this course provides an active study of commercial, banking, and legal practices and terminology, business letter writing and translating.

FRN 311 Masterpieces of French Literature

I SEMESTER, 3 CREDITS

Recurring themes in French literature are studied through close reading of selected literary masterpieces. Class discussions include examination of the relationship between literary works and the historical and socio-cultural context in which they are produced, as well as the evolution of particular literary themes over the ages. Conducted in English.

FRN 321 Survey of French Literature I

I SEMESTER, 3 CREDITS

Close reading of selections from major works of the Middle Ages through the 18th century with attention to the development of literary genres and to the social/historical context in which they emerge. Course includes oral and written work, *explications de texte*, and an introduction to a variety of critical perspectives.

FRN 322 Survey of French Literature II

I SEMESTER, 3 CREDITS

Critical examination of selections from works of the major literary movements of the 19th and 20th centuries with emphasis on developing students' analytical skills. Course includes oral and written work, *explications de texte*, and the study of critical theory.

FRN 370 Special Topics in French Studies

I SEMESTER, 3 CREDITS

This course provides the opportunity for in-depth study of a particular topic not treated in existing course offerings. Topics will vary and may be drawn from current issues or other related areas of interest to students of the discipline. *Prerequisite: Varies according to topic but always includes at least two FRN courses at the 200-level or above.*

FRN 401 French Poetry: Origins Through the Age of Enlightenment

I SEMESTER, 3 CREDITS

A critical examination of major works of French poetry from the Middle Ages through the 18th century pre-Romantic era. *Prerequisites: FRN 321 and 322.*

FRN 402 French Poetry: 19th and 20th Centuries

I SEMESTER, 3 CREDITS

A critical examination of major works of French poetry from early 19th century Romanticism to the modern day. *Prerequisites: FRN 321 and 322.*

FRN 403 French Theater: Origins Through the Classical Age of Louis XIV

1 SEMESTER, 3 CREDITS (Fine Arts Core)

A study of the emergence of theater as a genre, from the earliest *jeux* and *farces* of the Middle Ages through the 17th century Classical Age and the major works of Molière, Corneille, and Racine. *Prerequisites:* FRN 321 and 322.

FRN 404 French Theater: From the Ancien Régime to the Absurd

1 SEMESTER, 3 CREDITS (Fine Arts Core)

A critical examination of the major works of French theater and a study of the evolution of theater as a genre from the post-Louis XIV era through the Theater of the Absurd. *Prerequisites:* FRN 321 and 322.

FRN 405 French Novel: Origins Through the Age of Enlightenment

1 SEMESTER, 3 CREDITS

A study of the development of the novel as a genre through a critical examination of its earliest manifestations, including the 17th century's *Princesse de Clèves* and the epistolary novels of the 18th century. *Prerequisites:* FRN 321 and 322.

FRN 406 French Novel: 19th and 20th Centuries

1 SEMESTER, 3 CREDITS

A critical examination of major novels from the Romantic era through Existentialism, the Nouveau Roman, and the contemporary novel. *Prerequisites:* FRN 321 and 322.

FRN 450 Internship in French Studies

1 SEMESTER, 3 CREDITS

Offers majors at the advanced level the opportunity to apply and deepen their knowledge of the major language/culture in a meaningful way outside the classroom. Interns devote a minimum of 10 hours per week to supervised on-site responsibilities, and meet regularly with the faculty internship advisor to discuss the ongoing process of the scholarly project that will emerge from the internship experience.

FRN 490 Independent Study

1 SEMESTER, 3 CREDITS

Research in selected areas of language or literature directed by a member of the department. Topic will be arranged in consultation with the instructor. *Prerequisite:* Department chairperson approval.

German

Courses are conducted in the target language unless specified otherwise.

GER 101-102 Elementary German

2 SEMESTERS, 3 CREDITS EACH

This course is intended for students who have not had any experience with the German language. The German language is introduced through the use of multimedia resources. The fundamentals of German grammar necessary for everyday use of the language are introduced as well as cultural material. Although the emphasis is on oral proficiency, attention is given to reading and writing.

GER 103-104 Intermediate German

2 SEMESTERS, 3 CREDITS EACH

Intended for students who have learned the fundamentals of the German language and wish to become more proficient in speaking, reading, and writing and to gain more knowledge of the culture. The course also includes a review of the fundamentals of German grammar. Multimedia resources will be used in the course in order to enhance the learning process.

GER 201 German Conversation I

1 SEMESTER, 3 CREDITS

This course is for students who wish to improve their speaking ability in order to communicate more easily with native German speakers. Everyday topics and short literary selections are used for discussion. Students prepare and present dialogues in German.

GER 202 German Conversation II

1 SEMESTER, 3 CREDITS

This course is intended for students who wish to improve their degree of fluency in German. Students prepare and present oral reports, lead discussions, practice speech patterns, and build vocabulary.

GER 204 German Culture

1 SEMESTER, 3 CREDITS

A study of contemporary German society through an analysis of the everyday lifestyle, customs, values, attitudes, and unique aspects of the German people. Multimedia materials are used in this course.

GER 212 German Civilization

I SEMESTER, 3 CREDITS

A study of German civilization from its beginning to the present day. Attention will be given to history, geography, the arts, politics, and other pertinent areas. A full range of multimedia materials will be used in this course.

GER 301 Survey of German Literature to 1750

I SEMESTER, 3 CREDITS

This course covers the literature, language, and culture from the German Middle Ages to the 18th century. The student encounters heroic and courtly epics such as *Hildebrandslied*, *Parzival*, and *Tristan und Isolde* as well as political, religious, and *Minnesang* texts. Renaissance and Reformation literature illustrates development of thought and standardization of the language.

GER 302 German Literature of the Enlightenment and Storm and Stress Periods

I SEMESTER, 3 CREDITS

This course covers the literature of the German Enlightenment and the unique *Sturm und Drang* movement. Aided by CD-ROMs, videos, Web sites, and other multimedia equipment, the student will study works by authors such as Lessing, Goethe, and Schiller.

GER 303 German Literature of the Classical Period

I SEMESTER, 3 CREDITS

This course covers the literature produced in the era of Weimar Classicism by authors such as Goethe and Schiller. It surveys the meaning of “classicism” and shows how the Classical world influenced 18th-century German culture. Multimedia resources enhance the learning experience.

GER 304 German Romantic Literature

I SEMESTER, 3 CREDITS

This course involves a study of the romantic literary movement in Germany, with emphasis on the period from 1790 to 1830. The course includes an introduction to the genre and continues with the reading and interpretation of selected literary works within the romantic time frame.

GER 311 The German Theater

I SEMESTER, 3 CREDITS (Fine Arts Core)

An introduction to the history of the drama and the development of the German theater, followed by a critical study of several major works of German drama. Authors include: Hauptmann, Brecht, Dürrenmatt, Frisch, and others. Conducted in English.

GER 370 Special Topics in Germanic Studies

I SEMESTER, 3 CREDITS

This course provide students the opportunity for independent, in-depth study of a particular topic. Topics will vary and may be drawn from current events, literary works, art, music, and other themes. *Prerequisite:* Two GER courses at the 200-level or above.

GER 401 Introduction to German Drama

I SEMESTER, 3 CREDITS (Fine Arts Core)

The course reviews the development of drama as a literary form. This course will concentrate on the period from 1820 to 1830, which deals with the rise of German drama and includes representative works from authors. The readings of selected dramas will be enhanced by the use of multimedia resources.

GER 402 Modern and Contemporary German Drama

I SEMESTER, 3 CREDITS (Fine Arts Core)

This course includes a study of representative dramatic works from the second period of German drama (1850-1880). A progression from classical to contemporary drama is examined.

GER 403 Modern German Literature I

I SEMESTER, 3 CREDITS

A study of the major trends in the evolution of modern German literature as exemplified in the works of Hauptmann, Schnitzler, Kafka, Hesse, and German Expressionism.

GER 404 Modern German Literature II

I SEMESTER, 3 CREDITS

A study of contemporary German and Swiss literature with particular emphasis on the works of Thomas Mann, Brecht, Rilke, Frisch, Dürrenmatt, and others.

GER 450 Internship in Germanic Studies

I SEMESTER, 3 CREDITS

Offers minors at the advanced level the opportunity to apply and deepen their knowledge of the language/culture in a meaningful way outside the classroom. Interns devote a minimum of 10 hours per week to supervised on-site responsibilities, meet regularly with the faculty internship advisor to discuss the ongoing process of the scholarly project that will emerge from the internship experience.

GER 490 Independent Study

I SEMESTER, 3 CREDITS

Research in selected areas of language or literature directed by a member of the department. Topic will be arranged in consultation with the instructor. *Prerequisite:* Department chairperson approval.

Italian

Courses are conducted in the target language unless specified otherwise.

ITA 101 Elementary Italian I

I SEMESTER, 3 CREDITS

An introduction to Italian language, culture, and literature using a communicative approach through exercises on grammar, vocabulary, and pronunciation. Cultural readings will include specific topics such as the Italian family, Italian education, geography, literature, and film.

ITA 102 Elementary Italian II

I SEMESTER, 3 CREDITS

A continuation of the material introduced in Italian 101. New vocabulary, irregular verbs, past tenses, and the present subjunctive. Special attention is given to the frequent use of authentic materials (literary readings, advertisements, television commercials). Readings will include specific cultural topics such as the Italian family, Italian education, geography, literature, and film.

ITA 103 Intermediate Italian I

I SEMESTER, 3 CREDITS

A review of basic grammar while building on students' proficiency in the four language skills (reading, writing, listening, and speaking). A wide range of authentic literary and non-literary texts such as the Internet to enhance language acquisition.

ITA 104 Intermediate Italian II

I SEMESTER, 3 CREDITS

A continuation of the material introduced in Italian 103. This course seeks to reinforce and expand students' linguistic and cultural proficiency at a more advanced level. Contextualized exercises with use of the Internet to enhance language acquisition.

ITA 107 Intensive Elementary Italian

I SEMESTER, 6 CREDITS

This course concentrates one year's work into one semester. An introduction to Italian as a spoken and written language, the course is designed for students who wish to be fully immersed in the language, and who are motivated to do intensive oral practice, regular laboratory work, reading, and writing exercises.

ITA 201 Italian Composition

I SEMESTER, 3 CREDITS

This course is designed to expand the knowledge of Italian through a variety of written and oral assignments. Special attention will be on the development of students' cultural literacy and analytical skills as expressed in regular writing assignments. Discussions of selected cultural and literary topics, and differentiated grammatical exercises.

ITA 210 Conversational Italian

I SEMESTER, 3 CREDITS

Intended for students wishing to achieve near-native fluency in Italian. The course includes active use of the language, class discussions, and oral reports on selected cultural topics, oral summaries of short stories and other Italian texts, as well as viewing videos on contemporary Italy.

ITA 212 Italian Civilization

I SEMESTER, 3 CREDITS (Fine Arts Core)

The course provides a comprehensive account of the evolution of Italian civilization through an examination of Italian art, architecture, history, geography, cultural, and political developments from its origins to the present. Visits to the Rhode Island School of Design and other area museums or galleries. The course affords extensive practice in speaking, reading, comprehension, and writing in Italian.

ITA 303 Authors and Works of the Early Renaissance

I SEMESTER, 3 CREDITS

This course is designed to provide a comprehensive understanding of the ideals of the early Renaissance through the study of works by major authors, such as Bembo, Ariosto, Machiavelli, and Castiglione, and their brilliant fusion of idealism and realism. Readings will be examined in their historical and cultural context. *Prerequisites: ITA 321 and 322.*

ITA 304 Authors and Works of the Late Renaissance

I SEMESTER, 3 CREDITS

This course examines the great works of the late Italian Renaissance following the 1527 sack of Rome, with the ensuing political crisis for the Italian states and the papacy. Special attention will be given to Torquato Tasso as well as to the evolution of genres typical of the late Renaissance, including theater, poetry, and historical and didactic treatises. *Prerequisites: ITA 321 and 322.*

ITA 318 Modern Italy

I SEMESTER, 3 CREDITS (Social Science Core)

This course examines modern Italian society through a study of its cultural, literary, artistic, historical, and political development in order to provide students with an accurate understanding of the Italians and their contribution to the development of Western Civilization in general. Conducted in English.

ITA 321 Survey of Italian Literature I

I SEMESTER, 3 CREDITS

Selected readings from important works of Italian literature from its origin to the *Rinascimento*. Texts will be analyzed in their cultural and historical context; emphasis will be on the development of language and literary forms. Authors include St. Francis, Dante, Petrarch, and Boccaccio. Students will evaluate major themes through a variety of oral and written assignments.

ITA 322 Survey of Italian Literature II

I SEMESTER, 3 CREDITS

Selected texts from the most significant works of Italian literature from the 1500s to the present. The course will explore the development of literary styles and genres from the Baroque through contemporary writings. Students will develop an appreciation and solid understanding of the evolution of Italian literature by analyzing various stylistic techniques and critical approaches.

ITA 370 Special Topics in Italian

I SEMESTER, 3 CREDITS

This course will provide students the opportunity for in-depth study of a particular topic not treated in existing course offerings. Topics will vary and may be drawn from current issues, events, debates, or from other related areas of interest to students of the discipline. Conducted in Italian. *Prerequisites: ITA 321 and 322.*

ITA 401 Risorgimento I

I SEMESTER, 3 CREDITS

The aim of this course is to provide students with a comprehensive understanding of the literature of the years of the unification of Italy in the mid 1800s. Attention is given to the progression of Neoclassicism and Romanticism as evidenced in the works of authors such as Foscolo, Leopardi, and Manzoni. *Prerequisites: ITA 321 and 322.*

ITA 402 Risorgimento II

I SEMESTER, 3 CREDITS

This course intends to study the literary production and development of late Romanticism and Verismo during the late 1800s. Attention will focus on the differing aesthetics of Bohemian and Neoclassical poets—such as Carducci, Rovani, Pascoli, D'Annunzio—as well as the master of positive realism, Giovanni Verga. *Prerequisites: ITA 321 and 322.*

ITA 403 Modern Italian Literature: The Early 1900s

I SEMESTER, 3 CREDITS

This course is an intensive survey of Italian literature from the beginning of the 1900s with Decadence and Futurism to the literature of the Fascist years in the 1940s. Attention will be paid especially to major writers such as Pirandello, Svevo, Ungaretti, and Montale. The course emphasizes the historical evolution of literary forms, themes, and genres. *Prerequisites: ITA 321 and 322.*

ITA 404 Modern Italian Literature: 1950-Present

I SEMESTER, 3 CREDITS

An intensive survey of Italian literature beginning with the years following World War II, from Neo-Realism to the postmodern contemporary writers, including women writers such as Dacia Maraini and Natalia Ginzburg. *Prerequisites: ITA 321 and 322.*

ITA 405 Italian Cinema

I SEMESTER, 3 CREDITS (Fine Arts Core)

A chronological examination of Italian cinema from its origin to the present. Emphasis will be on Italian art and history. Major directors will be discussed in the context of historical and theoretical influences. Conducted in English.

ITA 450 Internship in Italian Studies

I SEMESTER, 3 CREDITS

Offers majors at the advanced level the opportunity to apply and deepen their knowledge of the language/culture in a meaningful way outside the classroom. Interns devote a minimum of 10 hours per week to supervised on-site responsibilities, and meet regularly with the faculty internship advisor to discuss the ongoing process of the scholarly project that will emerge from the internship experience.

ITA 490 Independent Study

I SEMESTER, 3 CREDITS

Readings or research in selected areas of language or literature directed by a member of the department. Topic will be arranged in consultation with the instructor. *Prerequisite: Department chairperson approval.*

Spanish

Courses are conducted in the target language unless specified otherwise.

SPN 101 Elementary Spanish I

I SEMESTER, 3 CREDITS

An introduction to the Spanish language for those students who have never studied the language. The course exposes the student to basic grammatical structures and seeks to develop the student's oral and written expression, listening and reading comprehension, and understanding of the Hispanic culture in the different Spanish-speaking countries.

SPN 102 Elementary Spanish II

I SEMESTER, 3 CREDITS

A beginning course for students with some prior knowledge of the Spanish language as determined by the Spanish placement exam. The course seeks to enhance the students' writing and speaking skills through extensive grammar exercises and class discussion of important themes in the Hispanic world.

SPN 103 Intermediate Spanish I

I SEMESTER, 3 CREDITS

An intermediate course for students who have taken classes previously in the Spanish language and who achieve the appropriate score on the Spanish placement exam. The course focuses on vocabulary acquisition and extensive practice of fundamental grammar points. The students will improve their listening and speaking skills through class discussion conducted in Spanish on a variety of cultural topics and contemporary issues.

SPN 104 Intermediate Spanish II

I SEMESTER, 3 CREDITS

An intermediate course for students who have achieved an adequate level of proficiency in Spanish as determined by the Spanish placement exam. The objective of the course is the enhancement of oral and written expression through class discussions and composition assignments. The topics for discussion emphasize the many facets of Hispanic culture.

SPN 201 Spanish Composition

I SEMESTER, 3 CREDITS

The aim of the course is to continue the development of reading and writing skills through the analysis and discussion of cultural and literary texts, fostering the exchange of opinions and ideas in order to help students improve their communication abilities. The course will also comprise a review of advanced grammatical structures from a contrastive point of view.

SPN 210 Conversational Spanish

I SEMESTER, 3 CREDITS

A conversation course designed to enable students to express themselves correctly and comfortably in Spanish. Class discussion of contemporary cultural, social, and political issues enhances the students' perception of the Hispanic world. Essays, newspaper articles, and films provide students with the vocabulary and colloquial expressions to attain fluency in the spoken language.

SPN 212 Hispanic Civilizations

I SEMESTER, 3 CREDITS (Fine Arts Core)

Surveys the cultural history of Spain and Spanish America through an examination of the arts as a means of access to developing civilizations. Painting, sculpture, and architecture are analyzed, not only as aesthetic expressions, but as instruments of political and philosophical expression. Students acquire a more in-depth knowledge of the richness and complexity of the Hispanic World through the arts. *Prerequisite: Spanish 201 or above.*

SPN 305 The Hispanic Short Story

I SEMESTER, 3 CREDITS

A course designed to introduce the basic techniques for a critical reading of fictive discourse. It traces the development of the short story in Spain and Spanish America. Special emphasis is placed upon the analysis of contemporary narrative forms and on the variety of reading responses invited by the various fictive styles. *Prerequisites: SPN 321 and 322.*

SPN 309 Hispanic Caribbean Literature and Culture

I SEMESTER, 3 CREDITS

An introduction to the ideas, values, and cultural dynamics that shape the Hispanic Caribbean regions and its peoples with emphasis on their literature, music, films, and other cultural manifestations. An examination of distinct identities woven together throughout history to influence the development of contemporary Hispanic Caribbean societies. *Prerequisite: SPN 212.*

SPN 310 Spanish Phonetics

I SEMESTER, 3 CREDITS

A course designed to master Spanish accentuation and pronunciation systems through study and practice of Spanish sounds and intonation patterns. The Spanish pronunciation is presented in contrast to that of American English to develop awareness of similarities and differences between systems. Students will also learn about Spanish dialects through the analysis of native oral samples. *Prerequisite: SPN 201 or 210.*

SPN 321 Survey of Spanish Literature

I SEMESTER, 3 CREDITS

The course will trace the development of Spanish literature from the Middle Ages through the 20th Century. Representative writers together with the main tenets of literary movements will receive special emphasis. Attention will be given to the cultural and historical ambience in which each work emerges. Students will read works in prose, verse, drama, and essay. *Prerequisite: SPN 212.*

SPN 322 Survey of Spanish-American Literature

I SEMESTER, 3 CREDITS

This course will study and analyze representative Spanish-American literary works from the colonial period through the present day. This course will provide an overview of the development of Spanish American literature via the study of some of the major writers and works from the time of the conquest through the contemporary period. *Prerequisite: SPN 212.*

SPN 370 Special Topics in Hispanic Studies

I SEMESTER, 3 CREDITS

This course will provide students the opportunity for in-depth study of a particular topic not treated in existing course offerings. Topics will vary and may be drawn from current issues, events, debates, or from other related areas of interest to students of the discipline. *Prerequisite: SPN 321 or 322.*

SPN 401 Spanish Literature of the Golden Age: The Renaissance

I SEMESTER, 3 CREDITS

Focuses on the Renaissance outlook in Golden Age Spain as reflected in the literary genres of chivalric romance, picaresque and pastoral novels, and poetry of the mystic and lyric traditions. Major selections from Cervantes' *Don Quijote* and his shorter novels, the *novelas ejemplares*, will be read and analyzed from the perspective of the socio-political and theological debates of the 16th century. *Prerequisites: SPN 321 and 322.*

**SPN 402 Spanish Literature of the Golden Age:
17th Century Spain on the Stage**

I SEMESTER, 3 CREDITS

Concentrates on playwrights such as Lope de Vega, Tirso de Molina, and Calderón, exploring the historical and cultural conditions underlying 17th-century Spanish theater. Designed to please a paying popular and a courtly audience, Spanish drama shaped a collective identity while projecting conflicts between desire and conformity. Analyzes issues of gender, identity, global expansion, scientific discovery, and tensions of a multicultural society. *Prerequisites:* SPN 321 and 322.

SPN 403 The Spanish Novel of the 19th Century

I SEMESTER, 2 CREDITS

A critical study of the literary movements of *costumbrismo*, *realismo*, and *naturalismo*. Special attention will be given to the novels of Alarcón, Clarín, Galdós, Pardo Bazán, and Valera. *Prerequisites:* SPN 321 and 322.

SPN 405 Contemporary Hispanic Poetry

I SEMESTER, 3 CREDITS

A study of the poetics of the avant-garde in Spain and Spanish America. Emphasis will be placed on the various strategies by which the poets reconcile their modernist interest in aesthetic form and their traditional preoccupation with history. *Prerequisites:* SPN 321 and 322.

SPN 406 Contemporary Spanish Prose

I SEMESTER, 3 CREDITS

An approach to post-war narrative in Spain, with emphasis on the techniques of the “novel,” particularly its relationship to European and Latin-American novel models. Authors include Cela, Fernández Cubas, Juan Goytisolo, Laforet, Llamazares, and others. *Prerequisites:* SPN 321 and 322.

SPN 407 20th-Century Spanish Drama

I SEMESTER, 3 CREDITS

This course examines the main dramatic tendencies in 20th-century Spain. Attention will be devoted to key theatrical developments within the context of philosophical (existentialism), social (neo-realism), and aesthetic (the theater of the absurd, post-Modernism) tendencies underlying much of Western thought during the 20th century. Arrabal, Buero Vallejo, Gala, Lorca, Sastre, and Valle-Inclán are among the authors included. *Prerequisites:* SPN 321 and 322.

SPN 408 Contemporary Spanish-American Novel

I SEMESTER, 3 CREDITS

This course provides an in-depth study of the characteristics of the Boom (1950-1970) and Post-Boom (1968) movements of Spanish-American Literature. It also considers the socio-cultural contexts of the respective periods. Works may include: Alejo Carpentier’s *Los pasos perdidos*, Gabriel García Márquez’s *Cien años de soledad*, Julio Cortázar’s *Rayuela*, Isabel Allende’s *La casa de los espíritus*. *Prerequisites:* SPN 321 and 322.

SPN 410 Spanish Applied Linguistics

I SEMESTER, 3 CREDITS (Social Science Core)

A course designed to introduce students to the field of Applied Linguistics and to prepare them to conduct research on the foreign language acquisition process. The course offers a contrastive study of the Spanish and English linguistic systems with special emphasis on sociolinguistic differences, and the role that language plays in society. *Prerequisites:* SPN 201 and 210, and at least one 300-level SPN course or above.

SPN 417 Spanish-American Literature

I SEMESTER, 3 CREDITS

A critical examination of themes, topics, and authors not otherwise covered in traditional genre or period courses. Readings will vary but will focus on underrepresented groups such as women writers, Afro-Hispanic, and indigenous literature written in genres such as the essay, drama, and poetry. *Prerequisites:* SPN 321 and 322.

SPN 418 Spanish-American Novel

I SEMESTER, 3 CREDITS

This course studies the development of the Spanish-American novel through 1950 focusing on issues of colonization, political, economic and cultural independence, identity, gender, and race. Texts may include: Fernández de Lizardi’s *El Periquillo Sarmiento*, Gertrudis Gómez de Avellaneda’s *Sab*, Alejo Carpentier’s *El reino de este mundo*. *Prerequisites:* SPN 321 and 322.

SPN 450 Internship in Hispanic Studies

I SEMESTER, 3 CREDITS

Offers majors at the advanced level the opportunity to apply and deepen their knowledge of the major language/culture in a meaningful way outside the classroom. Interns devote a minimum of 10 hours per week to supervised on-site responsibilities and meet regularly with the faculty internship advisor to discuss the ongoing process of the scholarly project that will emerge from the internship experience.

SPN 490 Independent Study

I SEMESTER, 3 CREDITS

Readings or research in selected areas of language or literature directed by a member of the department. Topic will be arranged in consultation with the instructor. *Prerequisite: Department chairperson approval.*

Music

Contact Information

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Location: Smith Center for the Arts Go4

The Faculty*Associate Professors*Catherine E. Gordon-Seifert, Ph.D., *Chairperson*

Sister Gail P. Himrod, O.P., Mus.A.D.

Assistant Professors

Patricia W. Cichy, Ph.D.

Michele M. Holt, D.M.A., *Program Director/Music Education, Director of Choral Activities*

Sang Woo Kang, D.M.A.

Christopher T. Kelton, D.M., *Director of Instrumental Activities**Administrative Staff and Special Lecturers*David Harper, M.Mus., *Coordinator of Vocal Studies*Eric D. Mazonson, M.M., *Music Accompanist***The Majors**

The objective of the Department of Music is to offer the study of music in a balanced and creative atmosphere that emphasizes the theoretical, historical, and educational foundations of music in a liberal arts context. Ample opportunity is provided for vocal and instrumental study and performance on an individual basis as well as in a variety of choral and instrumental ensembles.

The Department of Music offers a bachelor of arts in music and a bachelor of arts in music/music education. The bachelor of arts in music has five areas of specialization: History/Literature; Theory/Composition; Performance; Jazz; and Church Music. The program is a broad experience of the various aspects of music history, music theory, performance, and ensemble participation within the liberal arts context of the College.

The bachelor of arts in music education is a balance between the liberal arts program of the College and the requirements for both the music and education departments for the certification process in music education. Students will focus on the historical, philosophical, and psychological aspects of music education, while also becoming proficient in areas such as elementary and secondary methods, and conducting. Combined with required field experiences and 12 credits of student