

**Addendum
to the
2016-2017
Undergraduate
Catalog**

PROGRAMS OF STUDY

NEW OR UPDATED

ENGLISH

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MISSION:

The English program offers concentrations in literature, writing, and theatre; the goals and principles underlying these concentrations are the same:

- (1) To increase the student's appreciation and understanding of the literary, pragmatic, rhetorical, and dramatic uses of language.
- (2) To develop the student's ability to write effectively in a variety of situations.
- (3) To help the student become more receptive to the many-sided pleasures of reading, writing, and oral presentation.
- (4) To enable the student to see how literary and nonliterary texts illuminate the complexity of human experience.
- (5) To heighten the student's awareness of the moral and ethical implications of literary and nonliterary texts.
- (6) To foster the student's intellectual, aesthetic, and professional creativity.

The professional goals of the three concentrations are similar:

- (1) To prepare students for careers utilizing analytical writing skills and/or performance skills in such fields as business, industry, education, government, theatre, and media.
- (2) To prepare students for graduate studies in literature and writing and in fields that require analytic, interpretive, and writing skills.
- (3) In conjunction with the Teacher Education Program, to prepare students for careers in secondary education.

THEATRE PROGRAM

The Theatre Program is the production laboratory to the English Department's Concentration in Theatre and Theatre Minor. Open to students of all majors, the Theatre Program produces two mainstage productions per year, professional workshops and student projects. A host of theatre courses are offered each year as well. The Marist Theatre Program also includes the student-theatre organization, MCCTA. MCCTA produces several productions a year, including a musical, a comedy or drama, an original play festival and an improv troupe.

WRITING PROGRAM

The Writing Program includes not only the variety of courses offered by the English Department's Concentration in Writing and Creative

Two courses at the elementary level or one course at the intermediate level or above		3-6 cr	
Total Credit Requirement for a Major in English			45-48 cr
3.0	Core/Liberal Studies Requirements		
3.1	FOUNDATION		
	FYS 101 First Year Seminar	4 cr	
	ENG 120 Writing for College	<u>3 cr</u>	7 cr
3.2	DISTRIBUTION		
	Breadth		
	PHIL 101 Philosophical Perspectives	3 cr	
	Ethics, Applied Ethics, or Religious Studies	3 cr	
	Fine Arts	3 cr	
	History	3 cr	
	Literature	0 cr	(fulfilled by major field req.)
	Mathematics	3 cr	
	Natural Science	3 cr	
	Social Science	<u>3 cr</u>	21 cr
	Pathway*		<u>12 cr</u>
	Courses addressing an interdisciplinary topic.		
Total Core/Liberal Studies Requirement			40 cr
4.0	Electives		<u>32-35 cr</u>
Total Credit Requirement for Graduation			120 cr
5.0	Students are encouraged to pursue a minor in a different field to give structure and coherence to their programs.		

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Breadth and Pathway courses may overlap, but all students must take a total of 36 distribution credits (including related field requirements). Students majoring in Breadth areas may apply a maximum of 6 credits to their distribution total. If applicable to a Pathway, 3 credits may come from disciplines outside of Core Breadth areas. Although foreign language and culture courses are not required within the Core, some courses in these fields may be used to fulfill distribution requirements. See the Core/LS Program website for a detailed list of all courses that satisfy distribution requirements

REQUIREMENTS FOR A BACHELOR OF ARTS IN ENGLISH

Concentration in Theatre

Note: A minimum of 60 credits in Liberal Arts is required.

1.0	Major Foundation Courses:	12 cr
	ENG 270 Classics of Western Literature	
	ENG 150 Introduction to Theatre	
	ENG 180 Literary Study	
	ENG 185 Writing as a Discipline	
1.2	Course Requirements in sophomore, junior, and senior year are: Ten courses selected as follows:	
	Five Theatre Arts Courses:	15 cr
	ENG 227 Acting I	
	ENG 229 Theatre Practicum (one credit, may be taken up to three times for a total of three credits)	

ENG 241 Acting II
ENG 310 Playwriting Workshop
ENG 349 Acting III
ENG 350 Directing
ENG 451 Theatre Workshop
Appropriate Special-Topics Course

Five Dramatic Literature Courses: 15 cr

ENG 325 Shakespeare
AND

Four of the following:

ENG 320 English Drama I
ENG 321 English Drama II
ENG 340 American Drama I
ENG 341 American Drama II
ENG 355 History of the Modern Theatre
ENG 363 Modern Drama
Appropriate Special-Topics Course

1.3 Capping Course 3 cr
ENG 477

Credit Requirement for the Concentration in Theatre 45 cr

Notes: (a) A student may substitute ENG 497 Internship in English Theatre for one upper-level Theatre Arts or Dramatic Literature course.

(b) A student may substitute a maximum of one 3-credit course in Independent Research for a required upper-level course.

(c) A student may apply a maximum of one appropriate literature-in-translation course toward an upper-level Dramatic Literature requirement.

2.0 Courses Required in Related Fields: Foreign Language:
Two courses at the elementary level or one course
at the intermediate level or above (b)(c)
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Total Credit Requirement for Graduation

120 cr

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Breadth and Pathway courses may overlap, but all students must take a total of 36 distribution credits (including related field requirements). Students majoring in Breadth areas may apply a maximum of 6 credits to their distribution total. If applicable to a Pathway, 3 credits may come from disciplines outside of Core Breadth areas. Although foreign language and culture courses are not required within the Core, some courses in these fields may be used to fulfill distribution requirements. See the Core/LS Program website for a detailed list of all courses that satisfy distribution requirements.

REQUIREMENTS FOR NEW YORK STATE TEACHER CERTIFICATION IN ADOLESCENCE EDUCATION: ENGLISH (GRADES 7-12)

Marist College offers a state-approved program leading to initial teacher certification in Adolescence Education: English (Grades 7-12). Students seeking this certification are encouraged to consult with their academic advisor and the Coordinator of Adolescence Education in the Teacher Education Department. Because of the significant number of state certification requirements for this program, it is important that students seek such advisement early in their college careers, during the freshman year if possible. Education and related field requirements for Adolescence Education certification can be found on page 102 of this catalog.

REQUIREMENTS FOR A MINOR IN ENGLISH

1.0	Foundation Courses	6 cr
	ENG 180 Introduction to Literary Study	
	ENG 270 Classics of Western Literature	
2.0	Any four 300-400 level literature courses (not to include writing workshops or theatre arts courses)	<u>12 cr</u>
Total Credit Requirement for a Minor In English Literature		18 cr

REQUIREMENTS FOR A MINOR IN THEATRE

1.0	Foundation Course	3 cr
	ENG 150 Introduction to Theatre	
2.0	Required Course	3 cr
	ENG 325 Shakespeare	
	Any two of the following sequences:	<u>12 cr</u>
3.0	Performance Sequence	
	Two of the following:	
	ENG 227 Acting I	
	ENG 241 Acting II	
	ENG 349 Acting III (NOTE: This course can also count as part of the Production sequence.)	
	Appropriate Special-Topics course	
4.0	Production Sequence	
	Two of the following:	
	ENG 229 Theatre Practicum (one credit, may be taken up to three times for a total of three credits)	
	ENG 310 Workshop in Playwriting	
	ENG 349 Acting III	
	ENG 350 Directing	
	ENG 451 Theatre Workshop	
	Appropriate Special-Topics course	
5.0	Dramatic Literature Sequence	
	Two of the following:	
	ENG 320 English Drama I	

ENG 321 English Drama II
 ENG 340 American Drama I
 ENG 341 American Drama II
 ENG 355 History of Modern Theatre
 ENG 363 Modern Drama
 Appropriate Special-Topics course

Total Credit Requirement for a Minor in Theatre

18 cr

REQUIREMENTS FOR A MINOR IN PROFESSIONAL WRITING

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|-----|---|-------------|
| 1.0 | Foundation Courses | 9 cr |
| | ENG 185 Writing as a Discipline | |
| | ENG 218 Grammar, Style, and Editing | |
| | ENG 230 Workshop in Editing and Revision | |
| 2.0 | Upper-Level Writing Requirements | <u>9 cr</u> |
| | Three 300-level writing courses | |
| | (May include Independent Writing Project or Internship) | |

Total Credit Requirement for a Minor in Writing

18 cr

REQUIREMENTS FOR A MINOR IN CREATIVE WRITING

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|-----|---|-------|
| 1.0 | Foundation Course | |
| | ENG 280 Introduction to Creative Writing | 3 cr |
| 2.0 | Required Course | |
| | ENG 218 Grammar, Style and Editing | 3 cr |
| 3.0 | Four (4) of the following courses: | |
| | ENG 310 Playwriting Workshop | |
| | ENG 311 Poetry Workshop | |
| | ENG 380 Nonfiction Workshop | |
| | ENG 382 Fiction Workshop | |
| | ENG 392 Special Topics (in Writing) | |
| | ENG 490 Independent Writing Project | 12 cr |
| 4.0 | Any one (1) Forms (ENG 318) class in Playwriting, Poetry, Fiction or Nonfiction | 1 cr |

Total Credit Requirement for a Minor in Creative Writing

19 cr

RECOMMENDED PROGRAM SEQUENCE FOR A BACHELOR OF ARTS IN ENGLISH (LITERATURE)

FRESHMAN YEAR

FALL

FYS 101 First Year Seminar	4 cr
PHIL 101 Philosophical Perspectives	3 cr
ENG 120 Writing for College	3 cr
English Foundation Course	3 cr
English Foundation Course	3 cr
	<u>16 cr</u>

SPRING

Core/LS	3 cr
Core/LS	3 cr
Elective or minor	3 cr
English Foundation Course	3 cr
English Foundation Course	3 cr
	<u>15 cr</u>

SOPHOMORE YEAR

FALL

Core/LS	3 cr
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SPRING

Core/LS	3 cr
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Core/LS	3 cr	Core/LS	3 cr
Foreign Language	3 cr	Foreign Language	3 cr
Upper Level	3 cr	Upper Level	3 cr
Elective or minor	3 cr	Upper Level	3 cr
	<u>15 cr</u>		<u>15 cr</u>
JUNIOR YEAR			
FALL		SPRING	
Core/LS	3 cr	Core/LS	3 cr
Core/LS	3 cr	Core/LS or elective or minor	3 cr
Upper Level	3 cr	Upper Level	3 cr
Upper Level	3 cr	Upper Level	3 cr
Elective or minor	3 cr	Elective or minor	3 cr
	<u>15 cr</u>		<u>15 cr</u>
SENIOR YEAR			
FALL		SPRING	
Core/LS or minor	3 cr	ENG 477 English Capping	3 cr
Core/LS or elective or minor	3 cr	Upper Level	3 cr
Elective or minor	3 cr	Core/LS or minor	3 cr
Upper Level	3 cr	Elective or minor	3 cr
English Elective	3 cr	Elective or minor	2 cr
	<u>15 cr</u>		<u>14 cr</u>

RECOMMENDED PROGRAM SEQUENCE FOR A BACHELOR OF ARTS IN ENGLISH (THEATRE)

FRESHMAN YEAR			
FALL		SPRING	
FYS 101 First Year Seminar	4 cr	Core/LS	3 cr
PHIL 101 Philosophical Perspectives	3 cr	Core/LS	3 cr
ENG 120 Writing for College	3 cr	Core/LS	3 cr
English Foundation Course	3 cr	English Foundation Course	3 cr
English Foundation Course	3 cr	English Foundation Course	3 cr
	<u>16 cr</u>		<u>15 cr</u>
SOPHOMORE YEAR			
FALL		SPRING	
Core/LS	3 cr	Core/LS	3 cr
Core/LS	3 cr	Core/LS	3 cr
Foreign Language	3 cr	Foreign Language	3 cr
Upper Level Dramatic Literature	3 cr	Upper Level Dramatic Literature	3 cr
Theatre Arts Course	3 cr	Theatre Arts Course	3 cr
	<u>15 cr</u>		<u>15 cr</u>
JUNIOR YEAR			
FALL		SPRING	
Core/LS	3 cr	Core/LS	3 cr
Core/LS	3 cr	Core/LS or elective or minor	3 cr
Upper Level Dramatic Literature	3 cr	Upper Level Dramatic Literature	3 cr
Theatre Arts Course	3 cr	Theatre Arts Course	3 cr
Elective or minor	3 cr	Elective or minor	3 cr
	<u>15 cr</u>		<u>15 cr</u>
SENIOR YEAR			
FALL		SPRING	
Core/LS or minor	3 cr	ENG 477 English Capping	3 cr
Core/LS or minor	3 cr	Theatre Arts Course	3 cr
Elective or minor	3 cr	Core/LS or elective or minor	3 cr
Elective or minor	3 cr	Elective or minor	3 cr
Upper Level Dramatic Literature	3 cr	Elective or minor	2 cr
	<u>15 cr</u>		<u>14 cr</u>

RECOMMENDED PROGRAM SEQUENCE FOR A BACHELOR OF ARTS IN ENGLISH (WRITING)

FRESHMAN YEAR

FALL

FYS 101 First Year Seminar	4 cr
PHIL 101 Philosophical Perspectives	3 cr
ENG 120 Writing for College	3 cr
English Foundation Course	3 cr
English Foundation Course	3 cr
	<u>16 cr</u>

SPRING

Core/LS	3 cr
Core/LS	3 cr
Elective or minor	3 cr
English Foundation Course	3 cr
English Foundation Course	3 cr
	<u>15 cr</u>

SOPHOMORE YEAR

FALL

Core/LS	3 cr
Core/LS	3 cr
Foreign Language	3 cr
Upper Level Literature	3 cr
Writing Foundation	3 cr
	<u>15 cr</u>

SPRING

Core/LS	3 cr
Core/LS	3 cr
Foreign Language	3 cr
Upper Level Writing Course	3 cr
Writing Foundation	3 cr
	<u>15 cr</u>

JUNIOR YEAR

FALL

Core/LS	3 cr
Core/LS	3 cr
Upper Level Writing Course	3 cr
Upper Level Literature	3 cr
Elective or minor	3 cr
	<u>15 cr</u>

SPRING

Core/LS	3 cr
Core/LS or elective or minor	3 cr
Upper Level Writing Course	3 cr
ENG 490 or Internship	3 cr
Elective or minor	3 cr
	<u>15 cr</u>

SENIOR YEAR

FALL

Core/LS or minor	3 cr
Core/LS or elective or minor	3 cr
Elective or minor	3 cr
Upper Level Literature	3 cr
Upper Level Writing Course	3 cr
	<u>15 cr</u>

SPRING

ENG 477 English Capping	3 cr
Upper Level Theory	3 cr
Core/LS or minor	3 cr
Elective or minor	3 cr
Elective or minor	2 cr
	<u>14 cr</u>

DATA SCIENCE AND ANALYTICS

JOSEPH KIRTLAND, PhD, *Chairperson, Dept. of Mathematics*

MATTHEW JOHNSON, Ms, *Chairperson, Dept. of Computing Technology*

MISSION:

Data Science & Analytics builds on a core of computer science, information technology and systems, mathematics and statistics. Data Science is, in simple terms, the extraction of knowledge from data. Analytics is a sister term, used mostly in business settings to characterize the analysis of business data to describe, predict, and improve business performance. These disciplines include statistical analysis, machine learning, data mining, probabilistic modeling, computer programming, distributed and high performance computing, and database management. Graduates of the data science & analytics program develop a thorough understanding of the field, learn to manage data effectively, are prepared to apply statistical techniques for the analysis of data, and learn to explore data, communicate data analysis findings through visualizations and build models from data to describe phenomena and make predictions on future occurrences and events. Students in this program learn to develop large scale data mining applications, as well as implementing algorithms and designing, building and managing large, distributed data ("big data") systems.

1.0 Course Requirements in Major Field

CMPT 120	Introduction to Programming	4 cr
CMPT 220	Software Development I	4 cr
CMPT 435	Algorithm Analysis & Design	4 cr
CMPT 308	Database Management	

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RECOMMENDED PROGRAM SEQUENCE FOR A BACHELOR OF SCIENCE IN DATA SCIENCE AND ANALYTICS

FRESHMAN YEAR

FALL

CMPT 120 Introduction to Programming	4 cr
MATH 241 Calculus I	4 cr
DATA 220 Introduction to Data Analysis	4 cr
FYS 101 First-Year Seminar	<u>4 cr</u>

16 cr

SPRING

MATH 242 Calculus II	4 cr
CMPT 220 Software Development I	4 cr
PHIL 101 Philosophical Perspectives	3 cr
ENG 120 Writing for College	<u>3 cr</u>

14 cr

SOPHOMORE YEAR

FALL

MATH 243 Calculus III	4 cr
MATH 205 Discrete Mathematics	4 cr
CMPT 308 Database Management	4 cr
Core/LS	<u>3 cr</u>

15 cr

SPRING

CMPT 435 Algorithm Analysis & Design	4 cr
DATA 300 Data Visualization	3 cr
MATH 210 Linear Algebra	4 cr
Core/LS	<u>3 cr</u>

14 cr

JUNIOR YEAR

FALL

MATH 330 Probability & Statistics	3 cr
Major elective	3-4 cr
Core/LS	3 cr
Core/LS	3 cr
Core/LS	<u>3 cr</u>

15-16 cr

SPRING

DATA 450 Machine Learning	4 cr
CMPT 305 Data & Information Mgmt	4 cr
MATH 331 Applied Statistics	3 cr
Core/LS	<u>3 cr</u>

14 cr

SENIOR YEAR

FALL

DATA 450 Data Mining & Predictive Analytics	3 cr
Major elective	3 cr
Core/LS	3 cr
Core/LS	3 cr
Elective/ Internship	<u>4 cr</u>

16 cr

SPRING

DATA 477 Data Science Project (caps)	3 cr
Core/LS	3 cr
Core/LS	3 cr
Elective/ Internship	<u>7-6 cr</u>

16-15 cr

REQUIREMENTS FOR A MINOR IN SCIENCE IN DATA SCIENCE AND ANALYTICS

CMPT 120 Introduction to Programming	4 cr
MATH 241 Calculus I	4 cr
DATA 220 Introduction to Data Analysis	4 cr
DATA 300 Data Visualization	3 cr
DATA 450 Data Mining & Predictive Analytics	<u>3 cr</u>

Total Credit Requirement for a Minor in Data Science

18 cr

COURSE DESCRIPTIONS

New or updated:

CMPT 120

CMPT 460

Decision Support and Business Intelligence Systems

Four Credits LA

This course covers concepts and tools that aid managerial decision making by applying analytic reasoning and computer-based tools to managerial problems. Topics include: mathematical programming, stochastic simulation, decision analysis, data driven decision systems, probabilistic expert systems (Bayesian networks)

Prerequisites: MATH 130 or MATH 2XX (Introduction to Data Analysis)

DATA 220

Introduction to Data Analysis

Four Credits LA

This course introduces the basic ideas and techniques of data science including: exploratory data analysis, experimental design and sampling; relationships between one and several variables including single and multiple regression and two way tables; sampling distributions; inferential statistics for means, proportions, and regression coefficients; simple ANOVA. The course includes a computer lab using an appropriate high level statistical software package such as R. This course is offered every semester.

Prerequisite: Three years of high school mathematics or satisfactory performance on the Mathematics Placement Test

DATA 300

Data Visualization

Three Credits LA

This course provides an introduction to data visualization. Students will learn basic data visualization design and will learn techniques for visualizing multivariate, temporal, text-based, geospatial, hierarchical, and network/graph-based data. Software packages such as R, ggplot2, matplotlib and D3 will be used.

Prerequisite: CMPT 120, DATA 220 (Introduction to Data Analysis)

DATA 440

Machine Learning

Four Credits LA

This course provides a broad introduction to automated learning from data. Machine learning is the name given to the collection of techniques that allow computational systems to adaptively improve their performance by learning from past observed data. The course introduces the theoretical underpinnings of learning from data, the study of learning algorithms, as well as machine learning applications. Topics include: supervised learning (linear models, SVMs, MLPs) and unsupervised learning (K-means, GMMs), learning theory (generalization theory, bias/variance tradeoffs; Vapnik - Chervonenkis dimension); regularization methods, validation and models selection.

Prerequisite: MATH 330, MATH 210, CMPT 435

DATA 450

Data Mining & Predictive Analytics

Three Credits LA

Data Mining & Predictive Analytics is the name given to a group of disciplines, technologies, applications and practices for analyzing data and building models based on data. This course introduces basic concepts, tasks, methods, and techniques in data mining, including data exploration and pre-processing, classification, statistical modeling, association rules, clustering, text mining and web mining, social network analysis. A software package like R or IBM SPSS Modeler will be used.

Prerequisite: DATA 220 (Introduction to Data Analysis)

DATA 477

Data Science Project (CAPSTONE)

Three Credits LA

A project base course for the application of statistical modeling, data mining and machine learning techniques to large data sets. This course is intended only for data science majors.

Prerequisite: DATA 300 (Data Visualization), DATA 440 (Machine Learning), DATA 450 (Data Mining & Predictive Analytics)

ENG 271

Classics of Western Literature II

Three Credits LA

Taken in coordination with ENG 270 Classics of Western Literature I, this course sequence provides students with an overview of the Western literary tradition from classical times to the 21st century. Students will focus on key texts from different chronological periods in order to gain a firm sense of the wider "narrative" underlying the works they will study in upper-level courses. Questions of literary genius, tradition, and adaptation will be central to both courses in the sequence.

ENG 428

Junior/Senior Research Seminar

Three Credits LA

The seminar offers in-depth treatment of topics in genre, historical periods, critical theory, tropes or themes, single authors, and other areas of literary study, with an emphasis on archival and bibliographic research methods. The seminar model allows for greater

classroom participation by each student and more extensive research projects, culminating in a substantial final essay. Topics vary by semester. May be repeated for credit, provided topics are different.

MATH 205

Discrete Mathematics

Four Credits LA

This course introduces the algebraic concepts, methods, and techniques that form the basis of computer science, including the relevant areas of logic, set theory, matrices, graphs, geometric linear algebra, and the theory of relations; functions; bounds; and permutations. Offered every semester.

Prerequisite: Three years of high school mathematics

MATH 210

Linear Algebra

Four Credits LA

This course introduces the theory of vector spaces and linear transformations as abstract systems. Matrices, matrix operations, and determinants are introduced and they are used to study systems of linear equations, characteristic value problems, and various applications. Appropriate technology will be selected by the instructor. This course is offered every year.

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MATH 430

Operations Research

Three Credits LA

This course introduces the basic ideas and methods of operations research, considering topics selected from linear programming and the simplex method; transportation problems; sensitivity analysis; graphs and networks; CPM; PERT; dynamic programming; game theory; Markov chains; queueing; birth and death processes; inventory theory; simulation; and computer considerations. Offered biennially in the fall upon sufficient student demand.

Prerequisite: MATH 210