

TEACHING, WITH SUBJECT AREA (P-12) CERTIFICATION (M.A.T.)

Students with a baccalaureate degree and interest in teaching may pursue the Post-BA program for certification only **or** the Master of Arts in Teaching (MAT) which simultaneously leads to certification **and** Master's Degree. The content area program is open to students who wish to teach one of the following content areas in K-12 schools. Click on the links for more details about each program, including program description, admission requirements, and contact information.

- Art
- Biology
- Chemistry
- Earth Science
- English
- English as a Second Language
- French
- Health & Physical Education
- Italian
- Latin
- Mathematics
- Music
- Physical Science
- Physics
- Social Studies
- Spanish

Montclair State University's Teacher Education Program is one of the most highly-regarded teacher preparation programs in the country. It has been consistently recognized both nationally and regionally for its unique features, including its structure, partnerships, and curricular emphases. The program is considered a model for other colleges and universities and has continuously been accredited by the National Council for the Accreditation of Teacher Education (NCATE) since 1954.

The Teacher Education Program's professional course sequence and field experiences emphasize teaching for critical thinking and culturally responsive teaching. The professional component for both graduate students addresses four broad areas:

1. Student development and learning
2. The classroom and the school
3. The curriculum
4. Effective teaching skills

Program Requirements

Code	Title	Credits
Graduate Professional Sequence		
<i>Introductory Sequence</i>		
SASE 505	Teaching, Democracy, and Schooling	3
SASE 518	Technology Integration in the Classroom (Students pursuing certification in Health and Physical Education do not take this course.)	1

Diversity and Instructional Sequence

SASE 509	Sociocultural Perspectives on Curriculum and Assessment	3
SASE 516	Meeting the Needs of English Language Learners	1
SASE 517	Inclusive Classrooms in Middle and Secondary Schools (Students pursuing certification in Health and Physical Education do not take this course.)	1
SASE 519	Assessment for Authentic Learning (Students pursuing certification in Health and Physical Education do not take this course.)	3
READ 501	Techniques of Reading Improvement in the Secondary School (Students pursuing certification in Health and Physical Education do not take this course.)	3

Teaching Methods

Select from the list below, according to subject area. 3-6

Pedagogical Sequence I

SASE 526	Seminar in Inclusive Pedagogies	3
SASE 527	Clinical Practice I	3

Pedagogical Sequence II

SASE 529	Clinical Practice II	6
SASE 543	Advanced Seminar in Inclusive Pedagogies	3

Comprehensive Examination

In the term that you will sit for the exam, register for the section which matches your major and advisor. Successfully pass exam.

GRAD CMP Comprehensive Examination

Subject Matter Preparation

Complete one area of Subject Matter Preparation from the list below.

Total Credits 33-36

Teaching Methods

Code	Title	Credits
Select course(s) according to subject area:		
Art		
ARED 511 & ARED 512	Foundations of Methods and Curriculum in Art Education I: P-12 and Foundations of Methods and Curriculum in Art Education II: P-12	
Biological Science, Chemistry, Earth Science, Physics, or Physical Science		
SASE 502	Teaching Science in Secondary Schools	4
English		
ENGL 571	Teaching Methods (Secondary English)	4
English as a Second Language		
APLN 525	Methodology of Teaching ESL	3
French		
FREN 502 & FREN 519	Theories and Approaches to Teaching French as a Second Language and Teaching French in P-12: Practice	6
Health and Physical Education		
Italian		
ITAL 519	Methods of Teaching Italian in Elementary and Secondary Schools	3
Latin		
LATN 519	Teaching Latin in Secondary and Middle Schools	3

HLTH 520 & PEMJ 558	Foundations and Methods in Health Education and Teaching of Secondary Physical Education	6
Mathematics		
MATH 519	Teaching Mathematics	3
Music		
MUED 556 & MUED 557	Teaching Methods for the Elementary Music Class and Teaching Methods for Music in the Secondary Schools	6
Social Studies		
SASE 501	Graduate Methods of Teaching Social Studies	3
Spanish		
SPAN 518	Teaching Spanish in K-12	3

Additional Requirements for State Certification

Code	Title	Credits
<i>Speech</i>		
CMST 101	Fundamentals of Speech: Communication Requirement	3
<i>Physiology and Hygiene</i>		
Pass the MSU Health Knowledge Test available through the Center of Pedagogy or have an undergraduate equivalent course approved by advisor.		
<i>Educational Psychology</i>		
PSYC 560	Advanced Educational Psychology	3
Total Credits		6

Subject Matter Preparation Areas Art

Code	Title	Credits
Fine Arts Core		
ARFD 100	Perceptual Drawing	3
ARFD 101	Surface	3
ARFD 104	Space	3
ARFD 106	Digital Literacy	3
VIST 105	Global Foundations in Art and Visual Culture	3
VIST 106	Modern Visions 1400-1945	3
Fine Arts Education		
ARST 201	Objects in Clay	3
or ARST 202	3D and Extended Media	
ARST 204	Painting	3
ARST 205	Photography	3
or ARST 206	Printmaking	
Advanced Art Courses		
ARST 301	Integrative Studio I	3
ARST 402	Integrative Studio II	3
ARST 403	Integrative Studio III	3
ARED 525	Art and Special Education	3
Total Credits		39

Biological Science

Code	Title	Credits
Biology Requirements		
BIOL 112	Principles of Biology I	4
BIOL 113	Principles of Biology II	4
BIOL 213	Introduction to Ecology	4
BIOL 230	Cell and Molecular Biology	4
BIOL 380	Genetics	4
Collateral Chemistry Courses		
CHEM 120	General Chemistry I	4
CHEM 121	General Chemistry II	4
CHEM 230	Organic Chemistry I	3
CHEM 231	Organic Chemistry II	3
CHEM 232	Experimental Organic Chemistry I	2
Collateral Mathematics Courses		
Select one of the following sequences:		7-8
STAT 109 & MATH 111	Statistics and Applied Precalculus	
MATH 111 & AMAT 120	Applied Precalculus and Applied Calculus A	
MATH 122 & MATH 221	Calculus I and Calculus II	
Collateral Physics Courses		
PHYS 191	University Physics I	4
or PHYS 193	College Physics I	
PHYS 192	University Physics II	4
or PHYS 194	College Physics II	
Earth Science Elective		
Complete one of the following:		4
EAES 101	Planet Earth	
EAES 105	Physical Geology	
EAES 107	Earth and the Environment	
EAES 240	Earth System History	
Biology Electives		
Select 12 credits of 300-600 level Biology coursework. See department for approved list.		12
BIOL 300	Environmental Biology and Related Controversial Issues	
BIOL 330	Introduction to Animal Behavior	
BIOL 350	Microbiology	
BIOL 360	Introduction to Bio-Imaging	
BIOL 370	Principles of Ecology	
BIOL 380	Genetics	
BIOL 409	Externship in Biological Research (Co-operative Education)	
BIOL 410	Toxicology	
BIOL 411	Introduction to Transmission Electron Microscopy	
BIOL 415	Population Genetics	
BIOL 417	Evolutionary Biology	
BIOL 418	Biology Independent Research	
BIOL 420	Economic Botany	
BIOL 425	Elementary Plant Physiology	
BIOL 429	Herpetology	

BIOL 430	Ornithology	BIOL 533	Advanced Cell Biology
BIOL 431	Entomology	BIOL 540	Mammalian Physiology
BIOL 432	Medical Entomology	BIOL 542	Advanced Endocrinology
BIOL 433	Developmental Biology	BIOL 543	Advances in Immunology
BIOL 434	Molecular Biology	BIOL 544	Advanced Comparative Animal Physiology
BIOL 435	Experimental Molecular Biology	BIOL 545	Experimental Endocrinology
BIOL 436	Phylogenetic Zoology	BIOL 546	Special Topics in Physiology Special Topics in Physiology
BIOL 439	Biology of Animal Parasites	BIOL 547	Molecular Biology I
BIOL 440	Gross Mammalian Anatomy	BIOL 548	Molecular Biology II
BIOL 441	Comparative Anatomy of Vertebrates	BIOL 549	Special Topics in Developmental Biology
BIOL 442	Human Physiology	BIOL 550	Special Topics in Microbiology
BIOL 443	Vertebrate Embryology	BIOL 552	Biology of Lipids
BIOL 444	Cell Physiology	BIOL 554	Microbial Physiology
BIOL 445	Immunology	BIOL 555	Medical Genetics
BIOL 446	Endocrinology	BIOL 556	Molecular Biology of Proteins
BIOL 447	Fundamentals of Pharmacology	BIOL 557	Virology
BIOL 450	Medical Microbiology	BIOL 558	Microbial Genetics
BIOL 451	Comparative Animal Physiology	BIOL 560	Molecular Genetics
BIOL 457	Virology	BIOL 561	Genomics
BIOL 458	Microbial Genetics	BIOL 562	Special Topics in Molecular Biology
BIOL 460	Biological Oceanography	BIOL 563	Statistical Genomics
BIOL 461	Aquatic Ecology	BIOL 564	Proteomics
BIOL 467	Biology of the Fishes	BIOL 566	Bioinformatics
BIOL 468	Neurobiology	BIOL 568	Advanced Neuroscience
BIOL 475	Medical Genetics	BIOL 570	Ecology
BIOL 476	Biology of Cancer	BIOL 571	Physiological Plant Ecology
BIOL 480	Research Community I: Organism Biology	BIOL 572	Wetland Ecology
BIOL 481	Research Community II: Organism Biology	BIOL 573	Shoreline Ecology
BIOL 482	Research Community I: Molecular Biology	BIOL 574	Behavioral Ecology
BIOL 483	Research Community II: Molecular Biology	BIOL 575	Avian Biology
BIOL 484	Research Community I: Ecology	BIOL 576	Biology of Extreme Habitats
BIOL 485	Research Community II: Ecology	BIOL 579	Physiological Ecology of Animals
BIOL 486	Special Topics in Biology	BIOL 580	Evolutionary Mechanisms
BIOL 487	Statistical Genomics	BIOL 586	Special Topics in Advanced Biology
BIOL 488	Special Topics in Cell and Molecular Biology	BIOL 587	Special Topics in Advanced Molecular Biology
BIOL 489	Special Topics in Organismal Biology	BIOL 588	Special Topics in Advanced Physiology
BIOL 490	Senior Seminar in Biology	BIOL 589	Special Topics in Advanced Ecology
BIOL 491	Research in Biology Literature	BIOL 592	Graduate Colloquium
BIOL 492	Senior Colloquium	BIOL 593	Molecular Ecology
BIOL 493	Molecular Ecology	BIOL 594	Signal Transduction
BIOL 497	Genomics	BIOL 595	Conservation Biology: The Preservation of Biological Diversity
BIOL 500	Introductory Molecular Cell Biology	BIOL 596	Selected Techniques in Biology Science Education
BIOL 505	Experimental Cell Culture	BIOL 597	Research in Biological Literature
BIOL 510	Biology Pedagogy for Secondary Teachers	BIOL 598	Selected Techniques in Molecular Biology
BIOL 512	Special Topics in Modern Genetics	BIOL 599	Introduction to Biological Research
BIOL 514	Graduate Seminar in Biology	BIOL 601	Advanced Biological Science Education Pedagogy
BIOL 515	Population Genetics		
BIOL 518	Strategies for Teaching College Biology		
BIOL 520	Plant Physiology		
BIOL 521	Field Studies of Flowering Plants		
BIOL 529	Advanced Herpetology		
BIOL 532	Advanced Entomology		
		Total Credits	68

Chemistry

Code	Title	Credits
<i>Chemistry Requirements</i>		
CHEM 120	General Chemistry I	4
CHEM 121	General Chemistry II	4
CHEM 230	Organic Chemistry I	3
CHEM 231	Organic Chemistry II	3
CHEM 232	Experimental Organic Chemistry I	2
CHEM 233	Experimental Organic Chemistry II	2
CHEM 310	Analytical Chemistry	5
CHEM 311	Instrumental Analysis	4
CHEM 340	Physical Chemistry I	3
CHEM 341	Physical Chemistry II	3
CHEM 370	Biochemistry I	3
CHEM 501	Teaching Chemistry in the Secondary School	3
<i>Collateral Mathematics Courses</i>		
MATH 122	Calculus I	4
MATH 221	Calculus II	4
<i>Collateral Physics Courses</i>		
PHYS 191	University Physics I	4
PHYS 192	University Physics II	4
Total Credits		55

Earth Science

Code	Title	Credits
<i>Earth Science Core</i>		
EAES 105	Physical Geology	4
EAES 220	Mineralogy	4
EAES 240	Earth System History	4
EAES 302	Structural Geology	3
EAES 320	Igneous Metamorphic Petrology	4
EAES 441	Stratigraphy	4
<i>Additional Earth Science Courses</i>		
EAES 201	Understanding Weather and Climate	4
EAES 250	Introduction to Marine Sciences	4
EAES 280	Principles of Land Use	3
<i>Collateral Science Courses</i>		
BIOL 113	Principles of Biology II	4
CHEM 120	General Chemistry I	4
CHEM 121	General Chemistry II	4
AMAT 120	Applied Calculus A	4
PHYS 193	College Physics I	4
PHYS 194	College Physics II	4
Total Credits		58

English

Code	Title	Credits
Critical Theory		
Select one of the following:		3
ENGL 300	Critical Approaches to English	
ENGL 492	Seminar in Comparative Literature	

ENGL 507 Theoretical Approaches to Literature

British Literature

Select 6 credits from the following:		6
ENGL 240	English Literature I: Beginnings to 1660	
ENGL 241	English Literature II: 1660 to Present	
ENGL 250	Special Topics in English or American Literature	
ENGL 256	English Novel to 1900	
ENGL 341	Literature of the Long Eighteenth Century	
ENGL 342	From Sensibility to Romanticism	
ENGL 343	Milton	
ENGL 344	Chaucer	
ENGL 345	Medieval English Literature	
ENGL 346	19th Century English Romantic Literature	
ENGL 347	Victorian Poetry	
ENGL 348	Renaissance Literature	
ENGL 352	English Drama: Beginnings to 1642	
ENGL 353	Shakespeare: Comedies-Histories	
ENGL 354	Shakespeare: Tragedies-Romances	
ENGL 356	Modern British Fiction 1900-1945	
ENGL 357	Postwar British Fiction 1946-1990	
ENGL 358	Recent British Fiction 1990-Present	
ENGL 401	Old English Language and Literature	
ENGL 444	17th Century English Poetry	
ENGL 455	Restoration and 18th Century Drama	
ENGL 494	Seminar in English Literature	
ENGL 502	Seminar in British Literature	
ENGL 505	Chaucer	
ENGL 508	Shakespeare Studies: Tragedies	
ENGL 509	Shakespeare Studies: Comedies	
ENGL 510	Shakespeare Studies: Histories	
ENGL 511	Elizabethan and Jacobean Drama	
ENGL 518	Milton	
ENGL 521	The Augustan Age	
ENGL 525	The English Novel from Defoe to Austen	
ENGL 529	British Romanticism I: Wordsworth and Coleridge	
ENGL 532	Victorian Studies II: Novel	
ENGL 533	Victorian Studies III: Poetry	
ENGL 535	Turn-of-the-Century British Writers	
ENGL 540	The Modern British Novel	
ENGL 541	Modern British and Irish Poetry	
ENGL 542	The Irish Renaissance	
ENGL 597	Independent Study in British Literature	

American Literature

Select 6 credits from the following:		6
ENGL 234	American Drama	
ENGL 238	Black Writers in the United States: A Survey	
ENGL 239	Social Protest Literature in America	
ENGL 250	Special Topics in English or American Literature	
ENGL 275	Vietnam War and American Culture	
ENGL 301	The Novels of Toni Morrison	
ENGL 324	American Poetry to 1940	
ENGL 325	American Poetry: World War II to Present	

ENGL 326	Early American Literature
ENGL 333	Literature of American Renaissance
ENGL 336	American Literary Realism
ENGL 337	Modern American Fiction
ENGL 338	Recent American Fiction 1990 to Present
ENGL 493	Seminar in American Literature
ENGL 501	Seminar in American Literature
ENGL 550	Studies in Early American Literature
ENGL 555	American Romanticism
ENGL 556	Poe, Hawthorne, and Melville
ENGL 557	American Realism
ENGL 560	Modern American Fiction
ENGL 561	Modern American Poetry
ENGL 563	Recent American Fiction
ENGL 564	American Drama
ENGL 565	Black American Women Writers
ENGL 598	Independent Study in American Literature

Writing

Select 3 credits from the following: 3

ENWR 205	Creative Nonfiction
ENWR 371	Teaching Writing in the Public Schools
ENGL 503	Graduate Writing Seminar
ENGL 504	Seminar in Teaching Literature

Genre Study

Select 9 credits from the following: 9

ENGL 234	American Drama
ENGL 256	English Novel to 1900
ENGL 260	Art of Poetry
ENGL 262	Art of Fiction
ENGL 263	Art of Drama
ENGL 294	Women Poets
ENGL 324	American Poetry to 1940
ENGL 325	American Poetry: World War II to Present
ENGL 352	English Drama: Beginnings to 1642
ENGL 353	Shakespeare: Comedies-Histories
ENGL 354	Shakespeare: Tragedies-Romances
ENGL 356	Modern British Fiction 1900-1945
ENGL 357	Postwar British Fiction 1946-1990
ENGL 358	Recent British Fiction 1990-Present
ENGL 363	Modern Poetry to T.S. Eliot
ENGL 364	Contemporary Poetry
ENGL 374	Contemporary European Drama
ENGL 375	Modern Drama: Ibsen to O'Neill
ENGL 376	Modern European Novel
ENGL 377	Speculative Fiction: Fantasy
ENGL 378	Science Fiction
ENGL 444	17th Century English Poetry
ENGL 455	Restoration and 18th Century Drama
ENGL 508	Shakespeare Studies: Tragedies
ENGL 509	Shakespeare Studies: Comedies
ENGL 510	Shakespeare Studies: Histories
ENGL 515	Seventeenth Century Literature: Poetry

ENGL 525	The English Novel from Defoe to Austen
ENGL 532	Victorian Studies II: Novel
ENGL 533	Victorian Studies III: Poetry
ENGL 540	The Modern British Novel
ENGL 560	Modern American Fiction
ENGL 561	Modern American Poetry
ENGL 563	Recent American Fiction
ENGL 564	American Drama
ENLT 515	Ancient Tragedy
ENLT 516	Ancient Comedy
ENLT 517	Ancient Epic
ENLT 565	Ibsen, Strindberg, and Shaw
ENLT 570	The Modern Novel
ENLT 571	Trends in the Contemporary Novel
ENLT 577	Special Topics in Film Studies

Sociocultural Lenses

Select 6 credits from the following: 6

ENGL 116	World Literature: The Coming of Age Theme
ENGL 117	World Literature: Voices of Tradition and Challenge
ENGL 210	Myth and Literature
ENGL 230	Images of Muslim Women in Twentieth Century Literature and Culture
ENGL 238	Black Writers in the United States: A Survey
ENGL 239	Social Protest Literature in America
ENGL 250	Special Topics in English or American Literature
ENGL 252	Special Topics in Comparative Literature
ENGL 274	Contemporary U.S. Literature of Immigration
ENGL 275	Vietnam War and American Culture
ENGL 294	Women Poets
ENGL 301	The Novels of Toni Morrison
ENGL 315	American Indian Themes
ENGL 316	African, Asian and Caribbean Literature in English
ENGL 335	Contemporary Irish Literature
ENGL 360	Irish Literary Revival: 1890-1939
ENGL 366	African Myth and Literature
ENGL 367	Contemporary African Literature
ENGL 372	Women Prose Writers
ENGL 374	Contemporary European Drama
ENGL 376	Modern European Novel
ENGL 492	Seminar in Comparative Literature
ENGL 542	The Irish Renaissance
ENGL 565	Black American Women Writers
ENLT 502	Seminar in International Literature
ENLT 515	Ancient Tragedy
ENLT 516	Ancient Comedy
ENLT 517	Ancient Epic
ENLT 535	The Enlightenment in Europe
ENLT 570	The Modern Novel
ENLT 571	Trends in the Contemporary Novel
ENLT 599	Independent Study: International Literature

Language Study

Select one of the following: 3

ENGL 284	The English Language
ENGL 384	The Grammars of English
LNGN 220	Structure of American English
LNGN 284	History of the English Language

Total Credits **36**

French

Code	Title	Credits
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Required Courses

FREN 203	Mastering French	3
FREN 204	French Stylistics and Composition	3
FREN 205	Perfecting French Pronunciation	3
FREN 270	The Art of Writing in French	3
FREN 410	Advanced French Grammar	3
FREN 206	French Conversation	3
or FREN 330	Advanced Spoken Language Practice	
FREN 325	Structure of the French Language	3
or FREN 371	Explication De Texte	

Electives

Civilization

Select one of the following: **3**

FREN 302	Inventing France: From the Gauls to the Revolution	
FREN 304	French Civilization from Napoleon to World War II	
FREN 360	France from World War II to the Present	
FREN 529	Seminar in Enlightenment and Revolutionary France	
FREN 533	Eighteenth-Century French Civilization Seminar	
FREN 548	Special Topics in Contemporary French Civilization	
FREN 549	Contemporary Francophone Civilization Seminar	
FREN 550	Introduction to French Colonialism	

Literature

Select one of the following: **3**

FREN 315	Dada And Surrealism	
FREN 334	Seventeenth Century French Literature	
FREN 335	The French Renaissance	
FREN 336	Eighteenth Century French Literature	
FREN 339	Nineteenth Century French Literature	
FREN 340	Survey of French Poetry	
FREN 341	Contemporary French Drama	
FREN 345	Development of French Novel to 1900	
FREN 349	Francophone Literature	
FREN 352	Twentieth Century French Literature	
FREN 509	Critical Approaches to Literature	
FREN 511	Medieval French Literature	
FREN 513	Medieval French Theatre	
FREN 514	Medieval French Seminar	
FREN 517	Poetry of the Renaissance	
FREN 518	16th Century Seminar	
FREN 526	Corneille, Racine and Moliere	
FREN 527	Special Topics in 17th Century French Literature	
FREN 531	The Development of the Novel in 18th Century France	

FREN 535	Nineteenth-Century French Literature Seminar	
FREN 536	The Romantic Movement	
FREN 537	19th Century French Theatre	
FREN 538	French Novel of 19th Century I	
FREN 539	French Novel of 19th Century II	
FREN 540	19th Century French Poetry	
FREN 541	19th Century Seminar	
FREN 542	20th Century French Theatre	
FREN 544	20th Century French Novel I	
FREN 545	20th Century French Novel II	
FREN 546	20th Century Seminar	
FREN 547	Francophone Literature	
FREN 551	Women Writers from North Africa	
Elective		
Select one of the following:		3
FREN 302	Inventing France: From the Gauls to the Revolution	
FREN 304	French Civilization from Napoleon to World War II	
FREN 315	Dada And Surrealism	
FREN 334	Seventeenth Century French Literature	
FREN 335	The French Renaissance	
FREN 336	Eighteenth Century French Literature	
FREN 339	Nineteenth Century French Literature	
FREN 340	Survey of French Poetry	
FREN 341	Contemporary French Drama	
FREN 345	Development of French Novel to 1900	
FREN 349	Francophone Literature	
FREN 350	Translation I	
FREN 351	Translation II	
FREN 352	Twentieth Century French Literature	
FREN 360	France from World War II to the Present	
FREN 365	Introduction to Consecutive and Simultaneous Interpreting	
FREN 367	Seminars	
FREN 368	Seminars	
FREN 369	Seminars	
FREN 375	French Study Abroad	
FREN 380	Cooperative Education for the French Major	
FREN 452	Translation III	
FREN 470	Seminars	
FREN 472	French Language Workshop	
FREN 478	Independent Study	
FREN 501	Graduate Study Abroad	
FREN 504	Politics of the French Language	
FREN 505	History of the French Language	
FREN 506	Advanced French Phonetics	
FREN 507	Practicum in Translation and Interpreting	
FREN 510	Special Topics in French Linguistics	
FREN 516	French Humanism in 16th Century	
FREN 525	Moralists of the 17th Century	
FREN 530	Philosophy and Politics in 18th Century France	
FREN 532	18th Century Seminar	

Total Credits

30

Health and Physical Education

Code	Title	Credits
<i>Physical Education Courses</i>		
BIOL 244	Anatomy and Physiology I	4
PEMJ 131	Fitness Activities	3
PEMJ 152	Introduction to Fielding and Target Games	3
PEMJ 153	Introduction to Invasion and Net Games	3
PEMJ 235	Movement Experiences in Physical Education	3
PEMJ 320	Physiology of Exercise	4
PEMJ 321	Kinesiology	3
PEMJ 324	Basic Motor Learning	3
PEMJ 335	Teaching of Elementary Physical Education	3
PEMJ 351	Adapted Physical Education	3
PEMJ 531	Advanced Adapted Physical Education	3
HPEM 355	Assessment and Technology in Health and Physical Education	3
<i>Health Education Courses</i>		
NUFD 182	Nutrition: A Socioecological Perspective	3
HLTH 215	Drug Education in the Schools	3
HLTH 222	Mental Health in the Schools	3
HLTH 295	Sexuality Education in the Schools	3
Total Credits		50

Italian

Code	Title	Credits
<i>Required Courses</i>		
ITAL 242	Italian Grammar and Composition I	3
ITAL 243	Italian Grammar and Composition II	3
ITAL 309	Italian Conversation	3
ITAL 340	Reading, Writing, Translating Early Modern Italy	3
ITAL 341	Reading, Writing, Translating Modern and Contemporary Italy	3
<i>Electives</i>		
Select five of the following:		15
ITAL 321	Introduction to Italian Business and Commercial Translation	
ITAL 350	Introduction to Translating	
ITAL 375	Italian Study Abroad	
ITAL 441	Italian Literature of the Renaissance I	
ITAL 446	Italian Literature of the 19th Century I	
ITAL 451	Italian Literature of the 20th Century I: A Changing Italy	
ITAL 470	Senior Seminar in Literary Research	
ITAL 477	Italian Literature of the 18th Century	
ITAL 480	Independent Study	
Total Credits		30

Latin

Code	Title	Credits
<i>Required Courses</i>		
Select six of the following:		18
LATN 205	Intermediate Latin I	

LATN 206	Intermediate Latin II	
LATN 301	Latin Literature of the Republic	
LATN 302	Latin Literature of the Golden Age	
LATN 303	Latin Literature of the Silver Age	
LATN 304	Latin Literature of the Middle Ages	
LATN 401	Latin Composition	
LATN 410	Advanced Latin Grammar	
LATN 411	Roman Letter Writing	
LATN 412	Roman Drama	
LATN 414	Roman Lyric Poetry	
LATN 415	Roman Biography	
LATN 445	Linguistic History of the Latin Language	
LATN 451	Roman Historians	
LATN 453	The Epic and Vergil	
LATN 454	Lucretius and Ancient Science	
LATN 455	Ovid	
LATN 461	Caesar: End of the Republic	
LATN 462	Roman Satire	
LATN 464	The Elegy	
LATN 470	Senior Seminar	
LATN 475	Study Abroad	
LATN 478	Special Topics in Advanced Latin Readings	
LATN 484	Cicero: Ancient Philosophy	
LATN 511	The Comedy of Plautus	
LATN 541	Special Topics in Latin Literature	
LATN 584	Law in Roman Society	
Select three of the following:		9
HUMN 115	Troy and the Trojan War	
HUMN 181	Introduction to Classical Archaeology	
HUMN 211	Classicism and American Culture	
HUMN 281	Greek Civilization	
HUMN 282	Roman Civilization	
HUMN 285	Mythology	
HUMN 384	Introduction to Roman Law	
Total Credits		27

Mathematics

Code	Title	Credits
<i>Mathematics Courses</i>		
CSIT 111	Fundamentals of Java Programming	3
MATH 122	Calculus I	4
MATH 221	Calculus II	4
MATH 222	Calculus III	4
MATH 225	Linear Algebra	4
MATH 340	Probability	3
MATH 350	College Geometry	3
MATH 431	Foundations of Modern Algebra	3
<i>Mathematics Electives</i>		
Select two of the following:		6
MATH 271	Special Topics in Modern Mathematics	
MATH 323	Complex Variables	
MATH 325	Ordinary Differential Equation	

MATH 364	Operations Research I
MATH 369	Mathematical Modeling
MATH 425	Advanced Calculus I
MATH 426	Advanced Calculus II
MATH 433	Theory of Numbers
MATH 450	Foundations of Geometry
MATH 451	Topology
MATH 463	Numerical Analysis
MATH 465	Operations Research II
MATH 485	Applied Combinatorics and Graph Theory
MATH 490	Honors Seminar
MATH 495	Special Topics in Advanced Undergraduate Mathematics
MATH 497	Mathematics Research I
MATH 498	Mathematics Research II
MATH 574	Problem Analysis in Secondary Mathematics
MATH 575	Special Topics in Mathematics Education
MTHM 579	Applied Mathematics for the Middle Schools
STAT 443	Theory of Statistics
Total Credits	34

Music

Code	Title	Credits
<i>Required Courses</i>		
An undergraduate background with a minimum of 30 credits in music is required.		
MUED 419	Choral Methods	3
or MUED 420	Instrumental Methods	
MUED 435	Conducting for Music Educators	2
or MUPR 335	Elementary Conducting	
MUPR 207	Beginning Jazz Improvisation	1
or MUPR 411	Jazz Pedagogy	
MSSN 121	Secondary Instrument Guitar I	1
or MUED 132	Marching Band Techniques	
or MSSN 111	Secondary Instrument Voice I	
Select four of the following:		4
MUED 105	Instrumental Techniques: Strings I	
MUED 106	Instrumental Techniques: Strings II	
MUED 304	Instrumental Techniques: Brass I	
MUED 305	Instrumental Techniques: Brass II	
MUED 306	Percussion Instruments	
MUED 307	Instrumental Techniques: Woodwinds I	
MUED 308	Instrumental Techniques: Woodwinds II	
Total Credits		11

Physical Science

Code	Title	Credits
<i>Calculus-based Introductory Physics I and II</i>		
PHYS 191	University Physics I	4
PHYS 192	University Physics II	4
<i>Intermediate Mechanics</i>		
PHYS 210	Intermediate Mechanics	3

<i>Oscillations, Waves, and Optics</i>		
PHYS 220	Oscillations, Waves, and Optics	3
<i>Intermediate and Advanced Physics Laboratories</i>		
PHYS 230	Intermediate Physics Laboratory	4
PHYS 330	Advanced Physics Laboratory	4
<i>Statistical and Thermal Physics</i>		
PHYS 320	Statistical and Thermal Physics	3
<i>Electricity and Magnetism</i>		
PHYS 340	Electricity and Magnetism	3
<i>Modern Physics or Quantum Mechanics</i>		
PHYS 360	Modern Physics	3
or PHYS 464	Quantum Mechanics	
<i>Mathematics</i>		
MATH 122	Calculus I	4
or AMAT 120	Applied Calculus A	
MATH 221	Calculus II	4
or AMAT 220	Applied Calculus B	
MATH 222	Calculus III	4
<i>Introductory Chemistry</i>		
CHEM 120	General Chemistry I	4
CHEM 121	General Chemistry II	4
<i>Organic Chemistry</i>		
CHEM 230	Organic Chemistry I	3
CHEM 232	Experimental Organic Chemistry I	2
<i>Additional Chemistry or Biochemistry Course</i>		
Complete one 2-3 credit Chemistry or Biochemistry course.		2-3
Total Credits		74-75

Physics

Code	Title	Credits
<i>Calculus-based Introductory Physics I and II</i>		
PHYS 191	University Physics I	4
PHYS 192	University Physics II	4
<i>Intermediate Mechanics</i>		
PHYS 210	Intermediate Mechanics	3
<i>Oscillations, Waves, and Optics</i>		
PHYS 220	Oscillations, Waves, and Optics	3
<i>Intermediate and Advanced Physics Laboratories</i>		
PHYS 230	Intermediate Physics Laboratory	4
PHYS 330	Advanced Physics Laboratory	4
<i>Statistical and Thermal Physics</i>		
PHYS 320	Statistical and Thermal Physics	3
<i>Electricity and Magnetism</i>		
PHYS 340	Electricity and Magnetism	3
<i>Modern Physics</i>		
PHYS 360	Modern Physics	3
<i>Quantum Mechanics</i>		
PHYS 464	Quantum Mechanics	3
<i>Mathematics</i>		
MATH 122	Calculus I	4
or AMAT 120	Applied Calculus A	
MATH 221	Calculus II	4

or AMAT 220	Applied Calculus B	
MATH 222	Calculus III	4
MATH 325	Ordinary Differential Equation	4
or AMAT 350	Applied Mathematics I	
or PHYS 377	Mathematical Physics	
Total Credits		50

Social Studies

Code	Title	Credits
Complete 48 credits in the area of your undergraduate study.		48
<i>Undergraduate History</i>		
Select 36 credits of undergraduate History coursework.		
Select 12 credits from at least 3 additional Social Studies disciplines.		
<i>Undergraduate Anthropology</i>		
Select 36 credits of undergraduate Anthropology coursework.		
Select 12 credits of History coursework.		
<i>Undergraduate Economics</i>		
Select 36 credits of undergraduate Economics coursework.		
Select 12 credits of History coursework.		
<i>Undergraduate Geography</i>		
Select 36 credits of undergraduate Geography or Earth and Environmental Science coursework.		
Select 12 credits of History coursework.		
<i>Undergraduate Political Science</i>		
Select 36 credits of undergraduate Political Science coursework.		
Select 12 credits of History coursework.		
<i>Undergraduate Psychology</i>		
Select 36 credits of undergraduate Psychology coursework.		
Select 12 credits of History coursework.		
<i>Undergraduate Sociology</i>		
Select 36 credits of undergraduate Sociology coursework.		
Select 12 credits of History coursework.		
Total Credits		48

Spanish

Code	Title	Credits
<i>Required Courses</i>		
SPAN 241	Fundamentals of Spanish Grammar	3
SPAN 242	Spanish Composition and Stylistics	3
SPAN 343	Introduction to Spanish Phonetics	3
SPAN 348	Introduction to Hispanic Linguistics	3
SPAN 349	Introduction to Hispanic Literary Studies	3
SPAN 361	Voices of the Past and Present: Spain	3
SPAN 363	Voices of the Past and Present: Latin America	3
SPAN 410	Advanced Spanish Grammar	3
SPAN 374	Cultural Studies: Spain	3
or SPAN 376	Cultural Studies: Latin America and the Caribbean	
<i>Electives</i>		
Select three of the following:		9
SPAN 373	Special Topics in Spanish and Latin American Literature	
SPAN 375	Spanish Study Abroad	

SPAN 439	Spanish Film and Fiction	
SPAN 441	Contemporary Spanish Novel	
SPAN 442	Spanish Poetry and Drama of the 19th Century	
SPAN 443	Spanish Prose of the 19th Century	
SPAN 444	Contemporary Spanish Theater	
SPAN 446	The Latin American Essay and Crónica	
SPAN 447	Short Stories and Cross-Cultural Processes in the Spanish-Speaking World	
SPAN 448	Poetics of Resistance in Hispanic Poetry	
SPAN 449	Negotiating Identity and Power in the Hispanic Novel	
SPAN 460	El Quijote	
SPAN 466	Scripts and Stages: Hispanic Theater and Performance	
SPAN 469	The Drama of the Golden Age	
SPAN 470	Senior Seminar	
SPAN 471	Contemporary Trends in the Spanish-American Novel	
SPAN 472	Puerto Rican Literature and Thought	
SPAN 473	Sexual Subversion in Contemporary Hispanic Literature and Film	
SPAN 480	Independent Study	
Total Credits		36

Teaching English as a Second Language

Code	Title	Credits
<i>Required Courses</i>		
APLN 500	Language and Linguistics	3
or LNGN 210	Introduction to General Linguistics	
APLN 524	Advanced Structure of American English	3
or LNGN 220	Structure of American English	
APLN 502	Sociolinguistics	3
or LNGN 230	Language in Society	
APLN 532	Language and Culture in Minority Education	3
or LNGN 245	Language and Culture	
APLN 504	Syntax	3
or LNGN 300	Syntax	
Select two of the following:		6
APLN 506	Phonetics and Phonology	
LNGN 331	Phonetics	
LNGN 332	Phonology	
Select one of the following:		3
APLN 505	Semantics and Pragmatics	
LNGN 301	Semantics	
LNGN 302	Pragmatics	
Select four of the following:		12
APLN 510	Discourse Analysis	
APLN 520	Current Theories of Second Language Acquisition	
LNGN 260	Dialectology	
LNGN 280	Bilingualism	
LNGN 284	History of the English Language	
LNGN 288	Introduction to Cognitive Science	
LNGN 302	Pragmatics	

LNGN 304	Principles of Discourse Analysis
LNGN 325	Principles of Second Language Learning
LNGN 420	Language and the Mind
LNGN 450	Special Topics in Linguistics
LNGN 478	Independent Study
PSYC 348	Psycholinguistics
Total Credits	36