

B.S. IN MATHEMATICAL SCIENCES
2007-08
GENERAL EDUCATION REQUIREMENTS

NAME _____

| Writing | Credits | Grade |
|--|---------|-------|
| UNIV 111 Focused Inquiry I | | |
| UNIV 112 Focused Inquiry II (C grade or better required) | | |
| ENGL 200 Writing & Rhetoric II (C grade or better required, must complete 24 credits before enrolling) | | |

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| Writing Intensive: 2 WI courses required, at least one must be in the major. See Approved List A. | | |
| MATH 490 Mathematical Expositions (also fulfills a major requirement) | | |
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| Math & Statistics: | | |
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| MATH 151 Pre-calculus (MATH 141 or Placement) | | |

| Natural Sciences: Complete one of the following sequences of courses with lab: BIOL 151-152 OR PHYS 207-208 OR PHYS 201-202 OR CHEM 101-102. | | |
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| Complete another course with lab in the natural sciences from Approved List D. This course must be in the biological sciences if the above sequence was in PHYS or CHEM OR must be in the physical sciences if the BIOL sequence was selected. | | |
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| Complete one other course in the natural sciences OR complete a minor or second major offered outside the Department of Mathematical Sciences. Students in the Extended Teacher Preparation program are considered to have a second major outside the Department of Mathematical Sciences. | | |
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| Visual & Performing Arts: Take 2-3 credits from Approved List E. | | |
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| | Credits | Grade |
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| Literature: Take a literature course from Approved List F. | | |
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| | Credits | Grade |
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| Civilization: Take 1 course from each area listed (9 credits total) but no more than 6 credits in any one discipline OR take two 4-credit interdisciplinary courses (8 credits total) that combine elements of each area. | | |
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| Historical and Cultural Origins: 1 course from Approved List G. | | |
| American (U.S.) Studies: 1 course from Approved List H. | | |
| Global Studies: 1 course from Approved List I. | | |

| Foreign Language: Must demonstrate competency through 102 level by course or placement test. | | |
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| 101 level | | |
| 102 level | | |

| Human Behavior: Take 2 courses in different disciplines from Approved List J. | | |
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| Urban-Environment: Take 1 course from Approved List K. | | |
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| | Credits | Grade |
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| Ethical Principles: Select a course from Approved List C. | | |
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| | Credits | Grade |
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 Has VCCS Associate Degree _____

MATHEMATICAL SCIENCES MAJOR

The Bachelor of Science degree awarded by the Department of Mathematics and Applied Mathematics requires a minimum of 42 credits above the 100 level in courses labeled MATH, OPER, or STAT. Students choose the concentration in mathematics, applied mathematic, biomathematics or secondary mathematics teacher preparation. At least 24 of these credits must be at the 300-500 levels.

Applied Mathematics

MATH 301 Differential Equations; MATH 512 Complex Analysis for Applications; MATH 517-518 Methods of Applied Mathematics; and six additional upper-level credits in mathematical sciences. (MATH 302 Numerical Calculus, MATH 437 Applied Partial Differential Equations, and MATH 511 Applied Linear Algebra are recommended.)

Mathematics

MATH 501 Intro to Abstract Algebra; MATH 507-508 Analysis I-II; MATH 509 General Topology; and six additional upper-level credits in mathematical sciences.

Secondary Teacher Preparation

MATH 327 Mathematical Modeling; MATH 504 Algebraic Structures and Functions; MATH 505 Modern Geometry; MATH 507 Analysis I; MATH 530 History of Mathematics; MATH 554 Using Technology in the Teaching of Mathematics

Biomathematics

MATH 301 Differential Equations; MATH 380 Introduction to Mathematical Biology; MATH 527-528 Methods of Applied Mathematics for Life Sciences; MATH 529 Computational Modeling in Mathematical Biology; and three additional upper level credits in mathematical sciences.

CONCENTRATION

| Mathematics Core: Required for all Mathematical Science majors. | Credits | Grade |
|---|---------|-------|
| MATH 200 Calculus with Analytic Geometry I | | |
| STAT 212 Concepts of Statistics | | |
| MATH 201 Calculus with Analytic Geometry II | | |
| MATH 255 Introduction to Computational Mathematics | | |
| MATH 300 Introduction to Mathematical Reasoning | | |
| MATH 307 Multivariate Calculus | | |
| MATH 310 Linear Algebra | | |
| MATH 490 Mathematical Expositions | | |

| Concentration: Other required courses in mathematics | | |
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| Electives: Select additional courses to satisfy the 120 credits needed to graduate. | Credits | Grade |
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- Additional degree requirements**
- Cumulative 2.00 GPA
 - 2.00 GPA in the major
 - 45 credits in upper level courses or the equivalent
 - 120 Total Earned Hours
 - 30 At least 30 of the last 45 credits taken at VCU
 - Computer literacy requirement (must either pass Computer Proficiency Assessment at www.vcu.edu/cte/knowledge1 or pass INFO 160,161, & 162 courses or equivalent transfer course)

College of Humanities & Sciences – Approved Lists

Approved List A – Written Communications

(See course descriptions in the bulletin for any prerequisites.)

Writing

UNIV 111 Focused Inquiry I
UNIV 112 Focused Inquiry II
ENGL 200 Writing and Rhetoric Workshop II
(Taken in sophomore year.)

Writing intensive courses

African American Studies
AFAM 408 Seminar in African-American Studies

Anthropology

ANTH 301/BIOL 341 Human Evolution
ANTH 302 Archeological Theory
ANTH 303 Archeological Methods and Research Design
ANTH 315 Anthropological Field Methods & Research Design
ANTH/INTL 348 South American Ethnography
ANTH/INTL 349 Rethinking a Continent: Latin America
ANTH/INTL 350 Rethinking a Continent: Europe
ANTH/RELS/INTL 425 Religion, Magic and Witchcraft

Biology

BIOL 300 Biotechniques Laboratory (.5 WI credit)
BIOL 309 Entomology (.5 WI credit)
BIOZ 310L Laboratory in Genetics (.5 WI credit)
BIOZ 312L Invertebrate Zoology Laboratory (.5 WI credit)
BIOL 317L Ecology Laboratory
BIOL 320 Biology of the Seed Plant (.5 WI credit)
BIOZ 321L Plant Development Laboratory
BIOL 341/ANTH 301 Human Evolution
BIOL 392 Introduction to Research
BIOL 445 Neurobiology and Behavior (.5 WI credit)
BIOL 514 Stream Ecology (.5 WI credit)
BIOL 519 Plant Ecology (.5 WI credit)
BIOL 522 Evolution and Speciation
BIOL 541/ENFO 541 Laboratory in Molecular Genetics (.5 WI credit)

Chemistry

CHEZ 303L Physical Chemistry Laboratory I
CHEZ 409L Instrumental Analysis Laboratory

Criminal justice

CRJ/ENGL 302 Legal Writing
CRJ/HSEP 330 Legal and Constitutional Issues in Homeland Security and Emergency Preparedness
CRJS 358 Lawyer's Role in the Justice System
CRJS 460 Senior Seminar

Economics

ECON 302 Macroeconomic Theory

English

ENGL 301 English Studies: Reading Literature
ENGL/CRJS 302 Legal Writing
ENGL 303 Writing in the Workplace
ENGL 304 Advanced Writing
ENGL/MGMT 327 Business and Technical Report Writing
ENGL/RELS 361 The Bible as Literature
ENGL/ENVS 385 Nature Writing
ENGL 490 Senior Seminar in English (any topic)

Environmental studies

ENVS/ENGL 385 Nature Writing
ENVS 490 Research Seminar in Environmental Studies

French

FREN 300, 301 Advanced Grammar and Writing

Forensic science

FRSC 365 Forensic Microscopy
FRSC 375 Forensic Evidence, Law and Criminal Procedures

German

GRMN 301 Advanced Grammar and Writing

Geography

GEOG/INTL 303 World Regions
GEOG JURSP 306 Urban Economic Geography

History

HIST 300 Introduction to Historical Study
HIST 369 American Constitutional and Legal Development
HIST 490 Seminar in History (any topic)

Homeland Security and Emergency Preparedness

HSEP/CRJS 330 Legal and Constitutional Issues in Homeland Security and Emergency Preparedness
HSEP 490 Senior Seminar

Humanities and sciences

HUMS 591 Special Topics: Arts in Contemporary Britain (summer course only)

Interdisciplinary science

INSC 301 Investigatory Mathematics and Science

International studies

INTL/GEOG 303 World Regions
INTL/ANTH 348 South American Ethnography
INTL/ANTH 349 Rethinking a Continent: Latin America
INTL/ANTH 350 Rethinking a Continent: Europe
INTL/POLI 365 International Political Economy
INTL/RELS/WMNS 372 Global Women's Spirituality

INTL/RELS 409 Modern Islamic Thought and Global Trends
INTL/RELS/PHIL 412 Zen Buddhism
INTL/ANTH/RELS 425 Religion, Magic and Witchcraft
INTL/RELS 441 Islamic Mysticism: the Sufis
INTL/POLI 468 Seminar in Comparative Foreign Policy
INTL 490 Seminar in International Issues

Life sciences

LFSC/PSYC 307 Community Solutions: Multiple Perspectives

Mass communications

MASC 203 Writing for Mass Media
MASC 333 Public Relations Writing
MASC 363 Introduction to Broadcast Writing
MASC 392 Advertising Copywriting
MASC 403 Advanced Reporting
MASC 404 Specialized Project Reporting
MASC 475 Capital News Service

Mathematics

MATH 490 Mathematical Expositions
MATH 530 The History of Mathematics
MATH 531 Expositions in Modern Mathematics

Management/Business

MGMT/ENGL 327 Business and Technical Report Writing

Operations Research

OPER/STAT 490 Communications in Statistics and Operations Research

Philosophy

PHIL 301 Mind and Reality
PHIL 302 Reason and Knowledge
PHIL 303 Philosophy of Language
PHIL 320 Philosophy of Law
PHIL 335 Social and Political Philosophy
PHIL/INTL/RELS 412 Zen Buddhism
PHIL 490 Seminar in Philosophy

Physics

PHYS 450 Senior Physics Laboratory

Political science

POLI/WMNS 316 Women and the Law
POLI 341, 342 History of Political Thought
POLI/INTL 365 International Political Economy
POLI/INTL 468 Seminar in Comparative Foreign Policy
POLI 490 Senior Seminar

Psychology

PSYC/LFSC 307 Community Solutions: Multiple Perspectives
PSYC 317 Experimental Methods

Religious studies

RELS/ENGL 381 The Bible as Literature
RELS/WMNS 371 Islam and Women
RELS/WMNS/INTL 372 Global Women's Spirituality
RELS/INTL 409 Modern Islamic Thought and Global Trends
RELS/PHIL/ANTL 412 Zen Buddhism
RELS/INTL/ANTH 425 Religion, Magic and Witchcraft
RELS/INTL 441 Islamic Mysticism: the Sufis
RELS 490 Seminar in Religious Studies

Sociology

SOCY 402 Sociological Theory
SOCY 436 Work and Management in Modern Society

Spanish

SPAN 300, 301 Advanced Grammar and Writing

Statistics and Operations Research

STAT/OPER 490 Communications in Statistics and Operations Research

Urban studies

URSP/GEOG 306 Urban Economic Geography

Women's studies

WMNS/POLI 316 Women and the Law
WMNS/RELS 371 Islam and Women
WMNS/INTL/RELS 372 Global Women's Spirituality
WMNS 401 Topical Senior Seminar

Approved List B – Math & Statistics

(See course descriptions in the bulletin for any prerequisites.)

MATH 131 Introduction to Contemporary Mathematics
MATH 151 Pre-calculus Mathematics
MATH 200 Calculus with Analytic Geometry
STAT 208 Statistical Thinking
STAT 210 Basic Practice of Statistics
STAT 212 Concepts of Statistics (for science majors only)

Approved List C – Ethical Principles

(See course descriptions in the bulletin for any prerequisites.)

International studies

INTL 341/RELS 340 Global Ethics and the World's Religions

Mass communications

MASC 290 Ethical Problems in Mass Media

Philosophy

PHIL 211 History of Ethics
PHIL 212 Ethics and Applications
PHIL 213 Ethics and Health Care

PHIL 214 Ethics and Business
Political science
POLI 107 Political Theory
Religious studies
RELS 340/INTL 341 Global Ethics and the World's Religions
Sociology
SOCY 445 Medical Sociology

Approved List D – Natural Sciences

(See course descriptions in the bulletin for any prerequisites.)

Biological sciences

BIOL 101 Biological Concepts
BIOZ 101L Biological Concepts Laboratory
BIOZ/ENVS 103 Environmental Science
BIOZ/ENVS 103L Environmental Science Laboratory
BIOL 151 Introduction to Biological Science I (for biology and other science majors)
BIOZ 151L Introduction to Biological Science Laboratory I (for biology and other science majors)
BIOL 152 Introduction to Biological Science II (for biology and other science majors)
BIOZ 152L Introduction to Biological Science Laboratory II (for biology and other science majors)

Physical sciences

Chemistry

CHEM 101 General Chemistry (for science majors)
CHEZ/FRSZ 101L General Chemistry Laboratory (for science majors)
CHEM 110 Chemistry and Society
CHEZ 110L Chemistry and Society Laboratory
CHEM 112 Chemistry in the News

Forensic Science

FRSZ/CHEZ 101L General Chemistry Laboratory (for science majors)

Physics

PHYS 101 Foundations of Physics
PHYZ 101L Foundations of Physics Laboratory
PHYS 103 Elementary Astronomy
PHYZ 103L Elementary Astronomy Laboratory
PHYS 107 Wonders of Technology
PHYS 202 General Physics (for science majors)
PHYS 208 University Physics II (for science majors)

Approved List E – Visual & Performing Arts

A. Basic-level courses designed specifically for non-arts majors.

Art education

ARTE 301-302 Art for Elementary Teachers
ARTE 498 Two-dimensional Art Experiences
ARTE 499 Three-dimensional Art Experiences

Art foundation

ARTE 121-122 Introduction to Drawing

Dance and choreography

DANC 171, 172 Tai Chi
DANC 183, 184 Introduction to Modern Dance Technique
DANC 313 Dance in World Cultures

Interior design

IDES 103-104 Introductory Studio Course

Music

MHIS 105 Introduction to Writing Music
MHIS 243 Music Appreciation

Sculpture

SCPT 209 Introduction to Sculpture

Theatre

THEA 107, 108 Introduction to Stage Performance

B. Basic-level courses open to both art and non-art majors.

African American studies

AFAMDANC 121, 122 Tap Technique I
AFAMDANC 126, 127 African-Caribbean Dance
AFAM/MS 250 Introduction to African-American Music
AFAM/TEA 303 Black Theatre
AFAM 350/MHIS 350/INTL 370 Studies in the Music of the African Continent and Diaspora

Art history

ARTH 103, 104 Survey of Western Art
ARTH 207 Introduction to Non-Western Art
ARTH 270, 271 History of the Motion Picture

Crafts

CRAF 201-202 Metalsmithing
CRAF 211-212 Jewelry
CRAF 221 Woodworking Techniques
CRAF 241 Ceramics: Handbuilding
CRAF 242 Ceramics: Wheelthrowing
CRAF 251, 252 Introduction to Glassworking
CRAF 261, 262 Beginning Textiles

College of Humanities & Sciences – Approved Lists

- Dance and choreography**
 DANC 103-104 Survey of Dance History
 DANC 105-106 Improvisation
 DANC 114, 214, 314, 414 Summer Dance Workshop
 DANC/AFAM 121, 122 Tap Technique I
 DANC/AFAM 126, 127 African-Caribbean Dance I
 DANC 133-134 Introduction to Ballet Technique I and II
 DANC 141, 142 Ballroom Dancing
 DANC 243 Dynamic Alignment
 DANC 291 Topics in Dance
 DANC 313 Dance in World Cultures
- Fashion design and merchandising**
 FASH 240 Survey of the Fashion Industry I
- Interior design**
 IDES 103-104 Introductory Studio Course,
- International studies**
 INTL 370/AFAM 350/MHS 350 Studies in the Music of the African Continent and Diaspora
- Music**
 APFM 300-level Private Instruction: Principal and Secondary Performing Mediums
 APFM 370 Large Ensembles (auditions required for all sections)
 APFM 390 Small Ensembles (auditions required for all sections)
 MHS 120 Introduction to World Musical Styles
 MHS/AFAM 250 Introduction to African-American Music
 MHS 350/INTL 370/AFAM 350 Studies in the Music of the African Continent and Diaspora
- Theatre**
 THEA 103 Stagecraft
 THEA 211-212 Introduction to Drama
 THEA 229 Introduction to Lighting Design
 THEA/AFAM 303 Black Theatre

C. Advanced-level courses open to both arts and non-arts majors. Some require special permission/audition.

- Dance and choreography**
 DANC 221, 222 Tap Technique II
 DANC 319, 320 Video/Choreography Workshop

Approved List F – Literature

- English**
 ENGL 201 Western World Literature I
 ENGL 202 Western World Literature II
 ENGL 203 British Literature I
 ENGL 204 British Literature II
 ENGL 205 American Literature I
 ENGL 206 American Literature II
 ENGL 211 Contemporary World Literature
 ENGL 215 Readings in Literature
 ENGL 216 Readings in Narrative
 ENGL/WMNS 236 Women in Literature
 ENGL 241 Shakespeare's Plays
 ENGL 291 Topics in Literature
- Women's studies**
 WMNS/ENGL 236 Women in Literature

Approved List G – Historical & Cultural Origins

- African American studies**
 AFAM/HIST 105 Survey of African History I
 AFAM/HIST 106 Survey of African History II
- Anthropology**
 ANTH 105/INTL 104 Introduction to Archaeology
 ANTH/GEOG 312 History of Human Settlement
- Foreign language**
 FRLG/INTL 203 Language and Identity
- Geography**
 GEOG/ANTH 312 History of Human Settlement
- History**
 HIST 101 Survey of European History I
 HIST 102 Survey of European History II
 HIST/AFAM 105 Survey of African History I
 HIST/AFAM 106 Survey of African History II
 HIST 107 Survey of East Asian Civilizations I
 HIST 108 Survey of East Asian Civilizations II
 HIST 109 Survey of Latin American History I
 HIST 110 Survey of Latin American History II
- International studies**
 INTL 104/ANTH 105 Introduction to Archaeology

- INTL/FRLG 203 Language and Identity**
 INTL/RELS 311 Religions of the World I
 INTL/RELS 312 Religions of the World II
- Italian**
 ITAL 391/HUMS 491 Perugia Study Abroad
- Philosophy**
 PHIL 103 Ancient Greek and Medieval Western Philosophy
 PHIL 104 Modern Western Philosophy
- Religious studies**
 RELS/INTL 311 Religions of the World I
 RELS/INTL 312 Religions of the World II

Approved List H – American Studies

- American studies**
 AMST 394 Perspectives in American Studies
- Foreign language**
 FRLG/INTL 204 Language and Groups in the United States
- History**
 HIST 103 Survey of American History I
 HIST 104 Survey of American History II
- International studies**
 INTL/FRLG 204 Language and Groups in the United States
- Political science**
 POLI 103 U.S. Government
- Religious studies**
 RELS 334 Religion in Contemporary America

Approved List I – Global Studies

- Anthropology**
 ANTH/INTL 455 Anthropology of Development and Globalization (INTL 101 prerequisite)
- Geography**
 GEOG/INTL 303, 304 World Regions
- International studies**
 INTL 101 Human Societies and Globalization
 INTL/POLI 103 International Relations
 INTL/MASC 151 Communications Technology and Global Society
 INTL/GEOG 303, 304 World Regions
- Mass communications**
 MASC/INTL 151 Communications Technology and Global Society
- Political science**
 POLI/INTL 105 International Relations
 POLI 109 Comparative Politics
 POLI/INTL 365 International Political Economy
- Sociology**
 SOCY/INTL 330 Global Societies: Trends and Issues
 SOCY 430 Politics, Power and Ideology

Approved List J – Human Behavior

- Anthropology**
 ANTH/INTL 103 Introduction to Anthropology
 ANTH/INTL 348 South American Ethnography (ANTH 103 prerequisite)
 ANTH/INTL 349 Rethinking a Continent: Latin America (ANTH 103 prerequisite)
- Economics**
 ECON 101/INTL 102 Introduction to Political Economy
 ECON 203 Introduction to Economics
- Geography**
 GEOG 102 Introduction to Human Geography
 Homeland Security and Emergency Preparedness
 HSEP 101 Homeland Security and Emergency Preparedness
- International studies**
 INTL 102/ECON 101 Introduction to Political Economy
 INTL/ANTH 103 Introduction to Anthropology
 INTL/ANTH 348 South American Ethnography (ANTH 103 prerequisite)
 INTL/ANTH 349 Rethinking a Continent: Latin America (ANTH 103 prerequisite)
- Mass communications**
 MASC 101 Mass Communications
- Psychology**
 PSYC 101 Introduction to Psychology
- Social Science**
 SOCS 340 Human Sexuality
- Sociology**
 SOCY 101 General Sociology
 SOCY 340 Self and Society
- Women's studies**
 WMNS 201 Introduction to Women's Studies

Approved List K – Urban Environment

All courses designated as "service learning" fulfill this requirement. (See course descriptions in the bulletin for any prerequisites.)

- Anthropology**
 ANTH/GEOG 312 History of Human Settlement
 ANTH 450/ENGL 454/INTL 454 Cross-cultural Communication
- Criminal justice**
 CRJS 181 Justice System Survey
 CRJS 305 Policing Theories and Practice
 CRJS 352 Crime and Delinquency Prevention
 CRJS 488 Economic and Organized Crime
 CRJS 491 Topics in Criminal Justice: Youth in Corrections/Service Learning (only this topic)
- Economics**
 ECON/URSP 321 Urban Economics
- English**
 ENGL 454/INTL 454/ANTH 450 Cross-cultural Communication
- Environmental science**
 ENVS 491 Topics in Environmental Studies: Ecology of Urban Environments (only this topic)
- French**
 FREN 301 Advanced Grammar and Writing
- Foreign language**
 FRLG 345/URSP 350/INTL 345 Great Cities of the World
 FRLG 490 Foreign Languages Urban Internship
- Geography**
 GEOG/URSP 302 Land Use Capability
 GEOG/URSP 306 Urban Economic Geography
 GEOG/ANTH 312 History of Human Settlement
 GEOG/INTL/URSP 340 World Cities Outside of North America
- Humanities and sciences**
 HUMS 391 Special Topics in the Humanities and Sciences: Science Education in the Urban Environment (only this topic)
- International studies**
 INTL/URSP/GEOG 340 World Cities Outside of North America
 INTL 345/FRLG 345/URSP 350 Great Cities of the World
 INTL 454/ANTH 450/ENGL 454 Cross-cultural Communication
- Mass communications**
 MASC 303 General Assignment Reporting
 MASC 403 Advanced Reporting
 MASC 404 Specialized Project Reporting
 MASC 439 Public Relations Campaigns
 MASC 464 Advance Television Newsgathering
- Philosophy**
 PHIL 340 Philosophy for Children
- Physics**
 PHYS 291 Topics in Physical Science: Physics Outreach - Richmond Elementary Schools (only this topic)
- Political science**
 POLI 321 City Politics
- Psychology**
 PSYC 491 Topics in Psychology: Youth in Corrections/Service Learning (only this topic)
 PSYC 493 Fieldwork: Urban Environment (only this topic)
 PSYC 493 Fieldwork: Mentoring Children at Risk (only this topic)
- Social work**
 SLWK 422 Social Welfare Legislation and Services
- Sociology**
 SOCY 302 Contemporary Social Problems
 SOCY 327 Urban Sociology
 SOCY 391 Topics in Sociology: Youth in Corrections/Service Learning (only this topic)
- Spanish**
 SPAN 402 Language Issues in the Spanish-speaking World
- Teacher Education**
 TEDU 101 Introduction to Teaching
- Urban studies**
 URSP 116 Introduction to the City
 URSP 245 Housing and Community Revitalization
 URSP 281 Design of the City
 URSP/GEOG 302 Land Use Capability
 URSP 304 Urban Social Systems
 URSP/GEOG 306 Urban Economic Geography
 URSP 315 The Evolution of American Cities
 URSP 316 Urban Life in Modern America
 URSP/ECON 321 Urban Economics
 URSP/GEOG/INTL 340 World Cities Outside of North America
 URSP 350/INTL 345/FRLG 345 Great Cities of the World