

Minor in Philosophy**REQUIRED COURSES**

Complete the following two courses:

PHL U325	Ancient Philosophy	4 SH
PHL U330	Modern Philosophy	4 SH

ELECTIVE COURSES

Complete three philosophy courses.

GPA REQUIREMENT

2.000 GPA required in the minor

Minor in Religious Studies**REQUIRED COURSES**

Complete the following four courses:

PHL U150	Understanding the Bible	4 SH
PHL U275	Eastern Religions	4 SH
PHL U280	Islam	4 SH
PHL U390	Cults and Sects	4 SH

ELECTIVE COURSE

Complete one religious studies elective.

GPA REQUIREMENT

2.000 GPA required in the minor

PHYSICS

www.physics.neu.edu

JORGE V. JOSÉ, DR SCI

Matthews Distinguished University Professor and Interim Chair

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Stephen Reucroft, PhD
Fa-Yueh Wu, PhD

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Physics examines the fundamental principles that govern natural phenomena, ranging in scale from collisions of subatomic particles, through the behavior of solids, liquids, and biomolecules, to exploding stars and colliding galaxies.

The program aims to help students experience the intellectual stimulation of studying physics and astrophysics and the excitement of frontline research; understand the basic principles and techniques of physics-related careers; and prepare for graduate study in physics or related fields.

The department offers four levels of undergraduate courses: descriptive courses for nonscience majors with limited mathematical background; general survey courses for students in scientific and engineering fields; advanced courses primarily intended for physics majors; and highly advanced courses primarily intended for prospective graduate students.

In addition to work in industrial, government, or high-technology laboratories in areas of applied physics, students may find opportunities in such fields as biological physics, computer science, geophysics, medical and radiation physics, and engineering. Many physics majors pursue advanced degrees in physics and related fields.

Undergraduates have the option of majoring in biomedical physics. At the most basic level, biomedical physics seeks to understand the role of physical processes occurring on molecular, cellular, or macroscopic scales, in vital biological functions, ranging from the extraction of oxygen from the lungs by red blood cells to the generation of complex electrical signals in the brain and nervous system. At the most practical level, biomedical physics examines how physical principles and modern instrumentation techniques can be used in a rapidly increasing number of medical applications, ranging from imaging tissue structures and organ functions, to detecting and curing diseases, to performing sophisticated surgeries.

See pages 378–382 for course descriptions.

BS in Physics**COLLEGE OF ARTS AND SCIENCES BS CORE REQUIREMENTS FOR NATURAL SCIENCE MAJORS**

See page 46 for requirement list.

BREADTH COURSES FOR PHYSICS**Mathematics**

Complete the following six courses:

MTH U241	Calculus 1 for Science and Engineering	4 SH
MTH U242	Calculus 2 for Science and Engineering	4 SH
MTH U341	Calculus 3 for Science and Engineering	4 SH
MTH U345	Ordinary Differential Equations	4 SH
MTH U371	Linear Algebra	4 SH
MTH U481	Probability and Statistics	4 SH

General Engineering

Complete one general engineering course:

GE U110	Engineering Design	4 SH
or GE U111	Engineering Problem Solving and Computation	4 SH

Chemistry

Complete the following course and corresponding lab:

CHM U211	General Chemistry 1	4 SH
with CHM U212	Lab for CHM U211	1 SH

Technical Electives

Complete two intermediate or advanced courses from the following departments:

BIO U300 to BIO U699
CHE U300 to CHE U699
CHM U300 to CHM U699
CIV U300 to CIV U699
CS U300 to CS U699
ECE U300 to ECE U699
GEO U300 to GEO U699
MIM U300 to MIM U699
MTH U300 to MTH U699
PHY U300 to PHY U699

PHYSICS MAJOR REQUIREMENTS**Introductory Physics**

Complete the following two courses with corresponding labs:

PHY U161	Physics 1	4 SH
with PHY U162	Lab for PHY U161	1 SH
PHY U165	Physics 2	4 SH
with PHY U166	Lab for PHY U165	1 SH

Intermediate Physics

Complete the following three courses:

PHY U303	Modern Physics	4 SH
PHY U305	Thermodynamics and Statistical Mechanics	4 SH
PHY U371	Electronics	4 SH

Advanced Physics

Complete the following five courses:

PHY U600	Advanced Physics Laboratory 1	4 SH
PHY U601	Classical Dynamics	4 SH
PHY U602	Electricity and Magnetism	4 SH
PHY U603	Electromagnetic Waves and Optics	4 SH
PHY U617	Quantum Mechanics	4 SH

Elective Course

Complete one course from the following list:

PHY U500	Physics with Computers	4 SH
PHY U611	Astrophysics and Cosmology	4 SH
PHY U613	Particle and Nuclear Physics	4 SH
PHY U614	Condensed Matter Physics	4 SH

Senior Capstone and Experiential Education

Complete the following two courses:

PHY U700	Advanced Physics Laboratory 2	4 SH
PHY U954	Experiential Education Directed Study	4 SH

PHYSICS MAJOR CREDIT REQUIREMENT

Complete 91 semester hours in the major.

GENERAL ELECTIVES

Additional courses taken beyond college and major course requirements to satisfy graduation credit requirements.

COOPERATIVE EDUCATION

If elected

UNIVERSITY-WIDE REQUIREMENTS

128 total semester hours required

Transition students are required to complete 132 total semester hours

Minimum 2.000 GPA required

BS in Applied Physics**COLLEGE OF ARTS AND SCIENCES BS CORE REQUIREMENTS FOR NATURAL SCIENCE MAJORS**

See page 46 for requirement list.

BREADTH COURSES FOR APPLIED PHYSICS**Mathematics Courses**

Complete the following four courses:

MTH U241	Calculus 1 for Science and Engineering	4 SH
MTH U242	Calculus 2 for Science and Engineering	4 SH
MTH U341	Calculus 3 for Science and Engineering	4 SH
MTH U345	Ordinary Differential Equations	4 SH

General Engineering

Complete one general engineering course:

GE U110	Engineering Design	4 SH
or GE U111	Engineering Problem Solving and Computation	4 SH

Chemistry

Complete the following course and corresponding lab:

CHM U211	General Chemistry 1	4 SH
with CHM U212	Lab for CHM U211	1 SH

Computer Science

Complete two intermediate or advanced CS courses:

CS U300 to CS U699

Technical Electives

Complete four intermediate or advanced courses from the following departments:

BIO U300 to BIO U699
CHE U300 to CHE U699
CHM U300 to CHM U699

CIV U300 to CIV U699
 CS U300 to CS U699
 ECE U300 to ECE U699
 GEO U300 to GEO U699
 MIM U300 to MIM U699
 MTH U300 to MTH U699
 PHY U300 to PHY U699

APPLIED PHYSICS MAJOR REQUIREMENTS

Introductory Physics

Complete the following two courses with corresponding labs:

PHY U161	Physics 1	4 SH
with PHY U162	Lab for PHY U161	1 SH
PHY U165	Physics 2	4 SH
with PHY U166	Lab for PHY U165	1 SH

Intermediate Physics

Complete the following three courses:

PHY U303	Modern Physics	4 SH
PHY U305	Thermodynamics and Statistical Mechanics	4 SH
PHY U371	Electronics	4 SH

Advanced Physics

Complete the following two courses:

PHY U600	Advanced Physics Laboratory 1	4 SH
PHY U602	Electricity and Magnetism	4 SH

Advanced Physics Elective

Complete one course from the following list:

PHY U500	Physics with Computers	4 SH
PHY U603	Electromagnetic Waves and Optics	4 SH
PHY U611	Astrophysics and Cosmology	4 SH
PHY U613	Particle and Nuclear Physics	4 SH
PHY U614	Condensed Matter Physics	4 SH

Senior Capstone and Experiential Education

Complete the following two courses:

PHY U700	Advanced Physics Laboratory 2	4 SH
PHY U954	Experiential Education Directed Study	4 SH

APPLIED PHYSICS MAJOR CREDIT REQUIREMENT

Complete 86 semester hours in the major.

GENERAL ELECTIVES

Additional courses taken beyond college and major course requirements to satisfy graduation credit requirements.

COOPERATIVE EDUCATION

If elected

UNIVERSITY-WIDE REQUIREMENTS

128 total semester hours required
 Transition students are required to complete 132 total semester hours
 Minimum 2.000 GPA required

BS in Computer Science and Physics

See page 171.

BS in Biomedical Physics

COLLEGE OF ARTS AND SCIENCES BS CORE REQUIREMENTS FOR NATURAL SCIENCE MAJORS

See page 46 for requirement list.

BREADTH COURSES FOR BIOMEDICAL PHYSICS MAJOR

Mathematics Courses

Complete the following three courses:

MTH U241	Calculus 1 for Science and Engineering	4 SH
MTH U242	Calculus 2 for Science and Engineering	4 SH
MTH U341	Calculus 3 for Science and Engineering	4 SH

General Engineering

Complete one engineering course from the following departments: CHE, CIV, ECE, or MIM.

Biology

Complete the following two courses with corresponding labs:

BIO U111	General Biology 1	4 SH
with BIO U112	Lab for BIO U111	1 SH
BIO U113	General Biology 2	4 SH
with BIO U114	Lab for BIO U113	1 SH

Chemistry

Complete the following course and corresponding lab:

CHM U211	General Chemistry 1	4 SH
with CHM U212	Lab for CHM U211	1 SH

Technical Electives

Complete two intermediate or advanced courses from the following departments:

BIO U300 to BIO U699
 CHE U300 to CHE U699
 CHM U300 to CHM U699
 CIV U300 to CIV U699
 CS U300 to CS U699
 ECE U300 to ECE U699
 GEO U300 to GEO U699
 MIM U300 to MIM U699
 MTH U300 to MTH U699
 PHY U300 to PHY U699

BIOMEDICAL PHYSICS MAJOR REQUIREMENTS

Introductory Physics

Complete the following two courses with corresponding labs:

PHY U161	Physics 1	4 SH
with PHY U162	Lab for PHY U161	1 SH
or PHY U151	Physics for Engineering 1	4 SH
with PHY U152	Lab for PHY U151	1 SH
PHY U165	Physics 2	4 SH
with PHY U166	Lab for PHY U165	1 SH
or PHY U155	Physics for Engineering 2	4 SH
with PHY U156	Lab for PHY U155	1 SH

Intermediate Physics

Complete the following three courses:

PHY U303	Modern Physics	4 SH
PHY U305	Thermodynamics and Statistical Mechanics	4 SH
PHY U371	Electronics	4 SH

Advanced Physics

Complete the following four courses:

PHY U600	Advanced Physics Laboratory 1	4 SH
PHY U601	Classical Dynamics	4 SH
PHY U602	Electricity and Magnetism	4 SH
PHY U603	Electromagnetic Waves and Optics	4 SH

Biomedical Physics

Complete the following four courses:

PHY U621	Biological Physics 1	4 SH
PHY U623	Medical Physics	4 SH
PHY U651	Medical Physics Seminar 1	4 SH
PHY U652	Medical Physics Seminar 2	4 SH

Senior Capstone and Experiential Education

Complete the following two courses:

PHY U700	Advanced Physics Laboratory 2	4 SH
PHY U954	Experiential Education Directed Study	4 SH

BIOMEDICAL PHYSICS MAJOR**CREDIT REQUIREMENT**

Complete 94 semester hours in the major.

GENERAL ELECTIVES

Additional courses taken beyond college and major course requirements to satisfy graduation credit requirements.

COOPERATIVE EDUCATION

If elected

UNIVERSITY-WIDE REQUIREMENTS

128 total semester hours required

Transition students are required to complete 132 total semester hours

Minimum 2.000 GPA required

Minor in Physics**REQUIRED COURSES**

Complete one of the following sequences:

Physics 1 and 2

PHY U161	Physics 1	4 SH
with PHY U162	Lab for PHY U161	1 SH
PHY U165	Physics 2	4 SH
with PHY U166	Lab for PHY U165	1 SH

Physics for Engineering 1 and 2

PHY U151	Physics for Engineering 1	4 SH
with PHY U152	Lab for PHY U151	1 SH
PHY U155	Physics for Engineering 2	4 SH
with PHY U156	Lab for PHY U155	1 SH

ELECTIVE COURSES

Complete three courses from the following list:

PHY U303	Modern Physics	4 SH
PHY U305	Thermodynamics and Statistical Mechanics	4 SH
PHY U371	Electronics	4 SH
PHY U600	Advanced Physics Laboratory 1	4 SH
PHY U601	Classical Dynamics	4 SH
PHY U602	Electricity and Magnetism	4 SH
PHY U603	Electromagnetic Waves and Optics	4 SH

PHY U611	Astrophysics and Cosmology	4 SH
PHY U613	Particle and Nuclear Physics	4 SH
PHY U614	Condensed Matter Physics	4 SH
PHY U621	Biological Physics 1	4 SH
PHY U623	Medical Physics	4 SH

GPA REQUIREMENT

2.000 GPA required in the minor

BS/MS in Applied Physics and Engineering**COLLEGE OF ARTS AND SCIENCES BS CORE REQUIREMENTS FOR NATURAL SCIENCE MAJORS**

See page 46 for requirement list.

BREADTH COURSES**Mathematics**

Complete the following four courses:

MTH U241	Calculus 1 for Science and Engineering	4 SH
MTH U242	Calculus 2 for Science and Engineering	4 SH
MTH U341	Calculus 3 for Science and Engineering	4 SH
MTH U345	Ordinary Differential Equations	4 SH

General Engineering

Complete one general engineering course:

GE U110	Engineering Design	4 SH
or GE U111	Engineering Problem Solving and Computation	4 SH

Chemistry

Complete the following course and corresponding lab:

CHM U211	General Chemistry 1	4 SH
with CHM U212	Lab for CHM U211	1 SH

MAJOR REQUIREMENTS**Introductory Physics**

Complete the following two courses with corresponding labs:

PHY U161	Physics 1	4 SH
with PHY U162	Lab for PHY U161	1 SH
PHY U165	Physics 2	4 SH
with PHY U166	Lab for PHY U165	1 SH

Intermediate Physics

Complete the following three courses:

PHY U303	Modern Physics	4 SH
PHY U305	Thermodynamics and Statistical Mechanics	4 SH
PHY U371	Electronics	4 SH

Advanced Physics

Complete the following four courses:

PHY U600	Advanced Physics Laboratory 1	4 SH
PHY U602	Electricity and Magnetism	4 SH
PHY U603	Electromagnetic Waves and Optics	4 SH
PHY U617	Quantum Mechanics	4 SH

Senior Capstone and Experiential Education

Complete the following two courses:

PHY U700	Advanced Physics Laboratory 2	4 SH
PHY U954	Experiential Education Directed Study	4 SH

Engineering Undergraduate Requirements

Complete the following three courses:

ECE U400	Linear Circuits	4 SH
ECE U402	Electronics	4 SH
ECE U464	Linear Systems	4 SH

Engineering Graduate Requirements

Complete the following two courses:

ECE G200	Linear Systems Analysis	4 SH
ECE G204	Applied Probability and Stochastic Processes	4 SH

Engineering Graduate Electives

Complete six courses from the ECE graduate department.

APPLIED PHYSICS AND ENGINEERING MAJOR CREDIT REQUIREMENT

Complete 74 semester hours in the major.

GENERAL ELECTIVES

Additional courses taken beyond college and major course requirements to satisfy graduation credit requirements.

COOPERATIVE EDUCATION

If elected

UNIVERSITY-WIDE REQUIREMENTS

160 total semester hours required

Minimum 2.000 GPA required

POLITICAL SCIENCE

www.casdn.neu.edu/~polisci

JOHN H. PORTZ, PhD

Professor and Chair

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Political science majors study the art and science of politics, the structure and functions of government, political behavior, and public policymaking. Political science is interdisciplinary by nature, so students will learn about the political and policy dimensions of societies, economic systems, and cultures, today and across time, both in the United States and in other nations.

Political science majors can choose from a wide array of courses in American politics, international relations, comparative politics, public administration, and political theory. Majors can follow a general studies path, selecting from among electives as they go along, or they can pursue more structured and more specialized concentrations in law and legal issues, international and comparative politics, or public policy and administration. Most majors participate in the cooperative education program, with placements in state and federal government agencies, law firms, nonprofit institutions, and corporations. Many students complete either a co-op position or an internship with a congressional representative, a senator, a governor, or other elected public servant.

Students may also participate in extracurricular programs designed to expand their leadership ability, such as the Model United Nations, the Model Arab League, moot court, the student government, or the College Democrats or College Republicans. Many students study in one of the college's international programs, such as the Irish Studies program, which includes an internship in the Irish Parliament. Qualified students may be selected for the honors program and join the activities of the political science honor society.

A major in political science helps prepare students for law school, graduate school, and careers in the government and the nonprofit sector, as well as for teaching, journalism, legislative or lobbying positions, public relations activities, and work in international corporations. See pages 387–393 for course descriptions.

BA in Political Science**COLLEGE OF ARTS AND SCIENCES****BA CORE REQUIREMENTS**

See page 44 for requirement list.

POLITICAL SCIENCE MAJOR REQUIREMENTS*Political Science Requirements*

Complete the following four courses:

POL U150	American Government	4 SH
POL U155	Comparative Politics	4 SH
POL U160	International Relations	4 SH
POL U400	Quantitative Techniques	4 SH

Political Theory

Complete one course from the following list:

POL U326	Premodern Political Thought	4 SH
POL U328	Modern Political Thought	4 SH
POL U330	American Political Thought	4 SH
POL U332	Contemporary Political Thought	4 SH

Political Science Capstone

Complete the following course:

POL U701	Political Science Senior Capstone	4 SH
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POLITICAL SCIENCE EXPERIENTIAL EDUCATION REQUIREMENT

Choose cooperative education or study abroad or one course from the following list. Up to two credit-bearing courses count toward political science electives:

POL U905	Moot Court	4 SH
POL U910	Model United Nations	4 SH
POL U915	Model Arab League	4 SH
POL U940	Internship in Politics	4 SH
POL U942	Internship in American Government	4 SH
POL U943	Community-Based Research Practicum	4 SH
POL U944	Group Internship	4 SH
POL U946	Internship in State Government	4 SH

POLITICAL SCIENCE ELECTIVES FOR BA*Courses*

Complete six intermediate or advanced political science electives:

POL U300 to POL U999

Concentrations

If you choose to do one of the following concentrations, you may use four courses from the elective area to fulfill a concentration.

CONCENTRATION IN LAW AND LEGAL ISSUES

Complete four courses from the following list:

POL U300	The U.S. Congress	4 SH
POL U305	The American Presidency	4 SH
POL U324	Law and Society	4 SH
POL U330	American Political Thought	4 SH
POL U500	U.S. Constitutional Law	4 SH
POL U505	U.S. Civil Liberties	4 SH
POL U510	International Law	4 SH
POL U615	Seminar in Public Law	4 SH
POL U905	Moot Court	4 SH

CONCENTRATION IN INTERNATIONAL AND COMPARATIVE POLITICS

Complete four courses from the following list:

POL U370	Religion and Politics	4 SH
POL U405	International Political Economy	4 SH
POL U415	Ethnic Conflict in Comparative Politics	4 SH
POL U420	War and Political Violence	4 SH
POL U425	U.S. Foreign Policy	4 SH
POL U435	Politics in Western Europe	4 SH
POL U440	Politics in Northern Ireland	4 SH
POL U445	Politics in Central and Eastern Europe	4 SH
POL U450	Government and Politics in Russia	4 SH
POL U455	Russian Foreign Policy	4 SH
POL U460	Government and Politics in Africa	4 SH
POL U465	Government and Politics in the Middle East	4 SH
POL U475	Government and Politics in Latin America	4 SH
POL U480	Government and Politics in Japan	4 SH
POL U485	Government and Politics in China	4 SH
POL U510	International Law	4 SH
POL U530	Revolution and International Conflict	4 SH
POL U910	Model United Nations	4 SH
POL U915	Model Arab League	4 SH

CONCENTRATION IN PUBLIC POLICY AND ADMINISTRATION

Complete four courses from the following list:

POL U300	The U.S. Congress	4 SH
POL U305	The American Presidency	4 SH
POL U307	Public Policy and Administration	4 SH
POL U310	Parties and Elections	4 SH
POL U315	Interest Groups and Public Policy	4 SH
POL U320	Politics and Mass Media	4 SH
POL U334	Bureaucracy and Government Organizations	4 SH
POL U335	Budgeting and Taxation	4 SH
POL U340	Business and Government	4 SH
POL U345	Urban Policies and Politics	4 SH
POL U350	State and Local Politics	4 SH
POL U355	Intergovernmental Relations	4 SH
POL U357	Growth and Decline of Cities and Suburbs	4 SH
POL U358	Current Issues in Cities and Suburbs	4 SH
POL U360	Politics of Poverty	4 SH
POL U385	U.S. Health and Welfare Policy	4 SH
POL U390	Science, Technology, and Public Policy	4 SH
POL U395	Environmental Politics	4 SH
POL U405	International Political Economy	4 SH
POL U425	U.S. Foreign Policy	4 SH
POL U943	Community-Based Research Practicum	4 SH

POLITICAL SCIENCE MAJOR CREDIT REQUIREMENT

Complete 48 semester hours in the major.

UPPER-DIVISION ELECTIVES

Complete three general electives at 300 level or above.

GENERAL ELECTIVES

Additional courses taken beyond college and major course requirements to satisfy graduation credit requirements.

COOPERATIVE EDUCATION

If elected

UNIVERSITY-WIDE REQUIREMENTS

128 total semester hours required

Transition students are required to complete 132 total semester hours

Minimum 2.000 GPA required

BS in Political Science**COLLEGE OF ARTS AND SCIENCES BS CORE REQUIREMENTS FOR SOCIAL SCIENCE MAJORS**

See page 46 for requirement list.

POLITICAL SCIENCE MAJOR REQUIREMENTS***Political Science Requirements***

Complete the following four courses:

POL U150	American Government	4 SH
POL U155	Comparative Politics	4 SH
POL U160	International Relations	4 SH
POL U400	Quantitative Techniques	4 SH

Political Theory

Complete one course from the following list:

POL U326	Premodern Political Thought	4 SH
POL U328	Modern Political Thought	4 SH
POL U330	American Political Thought	4 SH
POL U332	Contemporary Political Thought	4 SH

Political Science Capstone

Complete the following course:

POL U701	Political Science Senior Capstone	4 SH
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POLITICAL SCIENCE EXPERIENTIAL EDUCATION REQUIREMENT

Choose cooperative education or study abroad or one course from the following list. Up to two credit-bearing courses count toward political science electives.

POL U905	Moot Court	4 SH
POL U910	Model United Nations	4 SH
POL U915	Model Arab League	4 SH
POL U940	Internship in Politics	4 SH
POL U942	Internship in American Government	4 SH
POL U943	Community-Based Research Practicum	4 SH
POL U944	Group Internship	4 SH
POL U946	Internship in State Government	4 SH

POLITICAL SCIENCE ELECTIVES FOR BS***Courses***

Complete eight intermediate or advanced political science electives:

POL U300 to POL U699

Concentrations

If you choose to do one of the following concentrations, you may use four courses from the elective area to fulfill a concentration.

CONCENTRATION IN LAW AND LEGAL ISSUES

Complete four courses from the following list:

POL U300	The U.S. Congress	4 SH
POL U324	Law and Society	4 SH
POL U330	American Political Thought	4 SH
POL U335	Budgeting and Taxation	4 SH
POL U385	U.S. Health and Welfare Policy	4 SH
POL U500	U.S. Constitutional Law	4 SH
POL U505	U.S. Civil Liberties	4 SH
POL U510	International Law	4 SH
POL U615	Seminar in Public Law	4 SH

CONCENTRATION IN INTERNATIONAL AND COMPARATIVE POLITICS

Complete four courses from the following list:

POL U370	Religion and Politics	4 SH
POL U405	International Political Economy	4 SH
POL U415	Ethnic Conflict in Comparative Politics	4 SH
POL U420	War and Political Violence	4 SH
POL U425	U.S. Foreign Policy	4 SH
POL U435	Politics in Western Europe	4 SH
POL U440	Politics in Northern Ireland	4 SH
POL U445	Politics in Central and Eastern Europe	4 SH
POL U450	Government and Politics in Russia	4 SH
POL U455	Russian Foreign Policy	4 SH
POL U460	Government and Politics in Africa	4 SH
POL U465	Government and Politics in the Middle East	4 SH
POL U475	Government and Politics in Latin America	4 SH
POL U480	Government and Politics in Japan	4 SH
POL U485	Government and Politics in China	4 SH
POL U510	International Law	4 SH
POL U530	Revolution and International Conflict	4 SH

CONCENTRATION IN PUBLIC POLICY AND ADMINISTRATION

Complete four courses from the following list:

POL U300	The U.S. Congress	4 SH
POL U305	The American Presidency	4 SH
POL U307	Public Policy and Administration	4 SH
POL U315	Interest Groups and Public Policy	4 SH
POL U334	Bureaucracy and Government Organizations	4 SH
POL U335	Budgeting and Taxation	4 SH
POL U340	Business and Government	4 SH
POL U345	Urban Policies and Politics	4 SH
POL U350	State and Local Politics	4 SH
POL U355	Intergovernmental Relations	4 SH
POL U360	Politics of Poverty	4 SH
POL U390	Science, Technology, and Public Policy	4 SH
POL U395	Environmental Politics	4 SH
POL U405	International Political Economy	4 SH
POL U425	U.S. Foreign Policy	4 SH

POLITICAL SCIENCE MAJOR CREDIT REQUIREMENT

Complete 56 semester hours in the major.

UPPER-DIVISION ELECTIVES

Complete three general electives at 300 level or above.

GENERAL ELECTIVES

Additional courses taken beyond college and major course requirements to satisfy graduation credit requirements.

COOPERATIVE EDUCATION

If elected

UNIVERSITY-WIDE REQUIREMENTS

128 total semester hours required

Transition students are required to complete 132 total semester hours

Minimum 2.000 GPA required

Minor in Political Science**REQUIRED COURSES**

Complete two of the following courses:

POL U150	American Government	4 SH
POL U155	Comparative Politics	4 SH
POL U160	International Relations	4 SH

ELECTIVE COURSES

Complete three political science courses.

GPA REQUIREMENT

2.000 GPA required in the minor

PSYCHOLOGY

www.psych.neu.edu

STEPHEN G. HARKINS, PhD

Professor and Chair

MATTHEWS DISTINGUISHED UNIVERSITY PROFESSORS

Harlan Lane, PhD, *Doc. ès Lettres*

Joanne L. Miller, PhD

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C. Randall Colvin, PhD

Denise Jackson, PhD

Franklin Naarendorp, PhD

Neal Pearlmutter, PhD

ASSISTANT PROFESSORS

John D. Coley, PhD

David A. DeSteno, PhD

Richard Gramzow, PhD

Jay P. McLaughlin, PhD

Richard H. Melloni Jr., PhD

ACADEMIC SPECIALISTS

Daniel F. Quinn, PhD

Nancy P. Snyder, EdD

LECTURER

David R. Barkmeier, PhD

Psychology is the science of behavior and mental processes. Using studies of humans and animals, psychologists seek to explain the behaviors and mental life of individuals in addition to developing methods for promoting their psychological well-being.

The psychology curriculum explores such topics as how brain function determines behavior; how we see, hear, and learn; what constitutes abnormal personality; how people develop emotionally and cognitively; and how individuals work in groups. Through laboratory practice and experimentation, individual research projects, and small-group seminars, the program encourages critical evaluation of psychology's accomplishments and its future.

The Bachelor of Arts degree is intended for students who wish to pursue a broad liberal arts education that explores the humanities, the social sciences, and to a lesser extent the natural sciences. The Bachelor of Science degree is more specialized and is usually recommended for students who have a strong scientific interest in psychology and the natural sciences.

The psychology department offers honors sections of introductory psychology, as well as honors activities in other courses. All students are eligible for directed study courses, which are individualized study or research experiences under the supervision of a faculty member. Co-op placements are based in both community (often mental health) and laboratory settings.

A solid scientific background in psychology helps prepare students for careers in teaching, business, public service, or research and provides a foundation for graduate study in all areas of psychology, including clinical, as well as in law and medicine. See pages 394–400 for course descriptions.

Internal Transfer into the Psychology Major

A student within the University seeking admission into the major must have a cumulative grade-point average of 2.500 overall. A student with an overall GPA of less than 2.500 must have completed three psychology courses at Northeastern with an average grade for the three courses of 2.500 before being considered for admission to the major.

BA in Psychology**COLLEGE OF ARTS AND SCIENCES****BA CORE REQUIREMENTS**

See page 44 for requirement list.

PSYCHOLOGY MAJOR REQUIREMENTS**Introductory Course**

Complete the following course:

PSY U101 Foundations of Psychology 4 SH

Personal/Social Bases of Behavior (Area A)

Complete two courses from the following list:

PSY U400 Personality 4 SH

PSY U402 Social Psychology 4 SH

PSY U404 Developmental Psychology 4 SH

PSY U406 Abnormal Psychology 4 SH

Biological/Cognitive Bases of Behavior (Area B)

Complete two courses from the following list:

PSY U450 Learning and Motivation 4 SH

PSY U452 Introduction to Sensation and Perception 4 SH

PSY U458 Psychobiology 4 SH

PSY U464 Psychology of Language 4 SH

or PSY U466 Cognition 4 SH

Statistics

Complete the following course and corresponding lab:

PSY U320 Statistics in Psychological Research 4 SH

with PSY U321 Lab for PSY U320 1 SH

Psychology Seminar

Complete one seminar from the following list:

PSY U650 Seminar in Clinical Case Study 4 SH

PSY U652 Seminar in Ethics in Psychology 4 SH

PSY U654 Seminar in Behavioral Modification 4 SH

PSY U656 Seminar in Psychobiology 4 SH

PSY U658 Seminar in Psycholinguistics 4 SH

PSY U660 Seminar in Cognition 4 SH

PSY U662 Seminar in Personality 4 SH

PSY U664 Seminar in Social Psychology 4 SH

PSY U666 Seminar in Clinical Psychology 4 SH

PSY U668 Seminar in Sensation and Perception 4 SH

PSY U670 Seminar in Research Psychology 4 SH

PSY U672 Seminar in History and Theories
of Psychology 4 SH

PSYCHOLOGY ELECTIVES FOR BA STUDENTS**Lab Requirement**

Complete two psychology lab courses or one psychology lab course and one psychology directed study:

LAB

PSY U600 Research Design in Psychology 4 SH

PSY U602 Experiments in Learning and Motivation 4 SH

PSY U604 Laboratory in Learning and Motivation 4 SH

PSY U606 Laboratory in Psychobiology 4 SH

PSY U608 Laboratory in Animal Behavior Research 4 SH

PSY U610 Laboratory in Psycholinguistics 4 SH

PSY U612 Laboratory in Cognition 4 SH

PSY U614 Laboratory in Social Psychology 4 SH

PSY U616 Laboratory in Personality 4 SH

PSY U618 Laboratory in Community Psychology 4 SH

PSY U620 Laboratory in Industrial/Organizational
Psychology 4 SH

PSY U622 Laboratory in Sensation and Perception 4 SH

DIRECTED STUDY

PSY U924 Directed Study 4 SH

Major Electives

Complete three elective psychology courses.

EXPERIENTIAL EDUCATION REQUIREMENT

Complete one course in experiential education. Please see department for approved courses.

PSYCHOLOGY MAJOR CREDIT REQUIREMENT

Complete 48 semester hours in the major.

UPPER-DIVISION ELECTIVES

Complete three general electives at 300 level or above.

GENERAL ELECTIVES

Additional courses taken beyond college and major course requirements to satisfy graduation credit requirements.

COOPERATIVE EDUCATION

If elected

UNIVERSITY-WIDE REQUIREMENTS

128 total semester hours required

Transition students are required to complete 132 total semester hours

Minimum 2.000 GPA required

BS in Psychology**COLLEGE OF ARTS AND SCIENCES BS CORE REQUIREMENTS FOR SOCIAL SCIENCE MAJORS**

See page 46 for requirement list.

PSYCHOLOGY MAJOR REQUIREMENTS**Introductory Course**

Complete the following course:

PSY U101 Foundations of Psychology 4 SH

Personal/Social Bases of Behavior (Area A)

Complete two courses from the following list:

PSY U400 Personality 4 SH

PSY U402 Social Psychology 4 SH

PSY U404 Developmental Psychology 4 SH

PSY U406 Abnormal Psychology 4 SH

Biological/Cognitive Bases of Behavior (Area B)

Complete two courses from the following list:

PSY U450 Learning and Motivation 4 SH

PSY U452 Introduction to Sensation and Perception 4 SH

PSY U458 Psychobiology 4 SH

PSY U464 Psychology of Language 4 SH

or PSY U466 Cognition 4 SH

Statistics

Complete the following course with corresponding lab:

PSY U320 Statistics in Psychological Research 4 SH

with PSY U321 Lab for PSY U320 1 SH

Psychology Seminar

Complete one seminar from the following list:

PSY U650 Seminar in Clinical Case Study 4 SH

PSY U652 Seminar in Ethics in Psychology 4 SH

PSY U654 Seminar in Behavioral Modification 4 SH

PSY U656	Seminar in Psychobiology	4 SH
PSY U658	Seminar in Psycholinguistics	4 SH
PSY U660	Seminar in Cognition	4 SH
PSY U662	Seminar in Personality	4 SH
PSY U664	Seminar in Social Psychology	4 SH
PSY U666	Seminar in Clinical Psychology	4 SH
PSY U668	Seminar in Sensation and Perception	4 SH
PSY U670	Seminar in Research Psychology	4 SH
PSY U672	Seminar in History and Theories of Psychology	4 SH

PSYCHOLOGY ELECTIVES FOR BS STUDENTS

Lab Requirement

Complete three psychology lab courses or two psychology lab courses and one psychology directed study:

LAB

PSY U600	Research Design in Psychology	4 SH
PSY U602	Experiments in Learning and Motivation	4 SH
PSY U604	Laboratory in Learning and Motivation	4 SH
PSY U606	Laboratory in Psychobiology	4 SH
PSY U608	Laboratory in Animal Behavior Research	4 SH
PSY U610	Laboratory in Psycholinguistics	4 SH
PSY U612	Laboratory in Cognition	4 SH
PSY U614	Laboratory in Social Psychology	4 SH
PSY U616	Laboratory in Personality	4 SH
PSY U618	Laboratory in Community Psychology	4 SH
PSY U620	Laboratory in Industrial/Organizational Psychology	4 SH
PSY U622	Laboratory in Sensation and Perception	4 SH

DIRECTED STUDY

PSY U924	Directed Study	4 SH
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Major Electives

Complete four elective psychology courses.

Related Electives

See the department for approved courses in math, natural sciences, and other Department of Psychology related courses.

EXPERIENTIAL EDUCATION REQUIREMENT

Complete one course in experiential education. Please see department for approved courses.

PSYCHOLOGY MAJOR CREDIT REQUIREMENT

Complete 56 semester hours in the major.

UPPER-DIVISION ELECTIVES

Complete three general electives at 300 level or above.

GENERAL ELECTIVES

Additional courses taken beyond college and major course requirements to satisfy graduation credit requirements.

COOPERATIVE EDUCATION

If elected

UNIVERSITY-WIDE REQUIREMENTS

128 total semester hours required

Transition students are required to complete 132 total semester hours

Minimum 2.000 GPA required

BA in Linguistics and Psychology

See page 91.

BS in Computer Science and Cognitive Psychology

See page 169.

Minor in Psychology

REQUIRED COURSE

Complete the following course:

PSY U101	Foundations of Psychology	4 SH
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PERSONAL/SOCIAL BASES OF BEHAVIOR (AREA A)

Complete one of the following courses:

PSY U400	Personality	4 SH
PSY U402	Social Psychology	4 SH
PSY U404	Developmental Psychology	4 SH
PSY U406	Abnormal Psychology	4 SH

BIOLOGICAL/COGNITIVE BASES OF BEHAVIOR (AREA B)

Complete one of the following courses:

PSY U450	Learning and Motivation	4 SH
PSY U452	Introduction to Sensation and Perception	4 SH
PSY U458	Psychobiology	4 SH
PSY U464	Psychology of Language	4 SH
PSY U466	Cognition	4 SH

ELECTIVE COURSES

Complete two additional psychology courses.

GPA REQUIREMENT

2.000 GPA required in the minor

SOCIOLOGY AND ANTHROPOLOGY

www.casdn.neu.edu/~socant

THOMAS H. KOENIG, PhD

Professor and Acting Chair

MATTHEWS DISTINGUISHED UNIVERSITY PROFESSOR

Debra R. Kaufman, PhD

IRVING S. AND BETTY BRUDNICK

DISTINGUISHED PROFESSOR

Jack Levin, PhD

RUSSELL B. AND ANDRÉE B. STEARNS TRUSTEE
PROFESSOR OF POLITICAL ECONOMY

Barry Bluestone, PhD

PROFESSORS

Arnold Arluke, PhD

Winifred Breines, PhD

Michael E. Brown, JD, PhD

Alan M. Klein, PhD