Degree Programs

Degree Programs in Arts and Sciences and Engineering

See program descriptions for the specific degrees offered.

Arts and Sciences

<table>
<thead>
<tr>
<th>Program Major</th>
<th>Bachelor</th>
<th>Combined Bachelors/Masters</th>
<th>Masters</th>
<th>Doctor of Philosophy</th>
</tr>
</thead>
<tbody>
<tr>
<td>Africana Studies</td>
<td>x</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Anthropology</td>
<td>x</td>
<td></td>
<td>x^4</td>
<td>x</td>
</tr>
<tr>
<td>Archaeology</td>
<td>x</td>
<td></td>
<td></td>
<td>x</td>
</tr>
<tr>
<td>Astronomy and Astrophysics</td>
<td>x</td>
<td></td>
<td></td>
<td>x</td>
</tr>
<tr>
<td>Behavioral Biology</td>
<td>x</td>
<td></td>
<td></td>
<td>x</td>
</tr>
<tr>
<td>Biology</td>
<td>x</td>
<td></td>
<td>x^7</td>
<td>x</td>
</tr>
<tr>
<td>Biophysics</td>
<td>x</td>
<td></td>
<td>x^12</td>
<td>x</td>
</tr>
<tr>
<td>Chemical Biology</td>
<td>x</td>
<td></td>
<td></td>
<td>x</td>
</tr>
<tr>
<td>Chemistry</td>
<td>x</td>
<td></td>
<td>x^4</td>
<td>x</td>
</tr>
<tr>
<td>Classics</td>
<td>x</td>
<td></td>
<td>x</td>
<td>x</td>
</tr>
<tr>
<td>Cognitive Science</td>
<td>x</td>
<td></td>
<td>x^11</td>
<td>x</td>
</tr>
<tr>
<td>Earth and Planetary Sciences</td>
<td>x</td>
<td></td>
<td></td>
<td>x</td>
</tr>
<tr>
<td>East Asian Studies</td>
<td>x</td>
<td></td>
<td></td>
<td>x</td>
</tr>
<tr>
<td>Economics</td>
<td>x</td>
<td></td>
<td>x^11</td>
<td>x</td>
</tr>
<tr>
<td>English</td>
<td>x</td>
<td></td>
<td>x^3</td>
<td>x</td>
</tr>
<tr>
<td>Film and Media</td>
<td>x</td>
<td></td>
<td></td>
<td>x</td>
</tr>
<tr>
<td>Film and Media Studies</td>
<td>x</td>
<td></td>
<td></td>
<td>x</td>
</tr>
<tr>
<td>French</td>
<td>x</td>
<td></td>
<td>x^11</td>
<td>x</td>
</tr>
<tr>
<td>German</td>
<td>x</td>
<td></td>
<td>x</td>
<td>x</td>
</tr>
<tr>
<td>Global Environmental Change and Sustainability</td>
<td>x</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>History</td>
<td>x</td>
<td></td>
<td>x^2</td>
<td>x</td>
</tr>
<tr>
<td>History of Art</td>
<td>x</td>
<td></td>
<td>x^6</td>
<td>x</td>
</tr>
<tr>
<td>History of Science</td>
<td>x</td>
<td></td>
<td>x^2</td>
<td>x</td>
</tr>
<tr>
<td>History of Science, x</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Medicine and Technology</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Humanities Center</td>
<td></td>
<td></td>
<td>x</td>
<td></td>
</tr>
<tr>
<td>Interdisciplinary Studies</td>
<td>x</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>International Studies</td>
<td>x</td>
<td></td>
<td>x^16</td>
<td></td>
</tr>
<tr>
<td>Italian</td>
<td>x</td>
<td></td>
<td>x^19</td>
<td>x</td>
</tr>
<tr>
<td>Latin American</td>
<td>x</td>
<td></td>
<td></td>
<td>x</td>
</tr>
<tr>
<td>Mathematics</td>
<td>x</td>
<td></td>
<td>x</td>
<td>x</td>
</tr>
<tr>
<td>Medicine, x</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Science and the Humanities</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Molecular and Cellular Biology</td>
<td>x</td>
<td></td>
<td>x^7</td>
<td>x^7</td>
</tr>
</tbody>
</table>

Engineering

<table>
<thead>
<tr>
<th>Program Major</th>
<th>Bachelor</th>
<th>Combined Bachelors/Masters</th>
<th>Masters</th>
<th>Doctor of Philosophy</th>
</tr>
</thead>
<tbody>
<tr>
<td>Applied Mathematics and Statistics</td>
<td>x^10</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Biomedical Engineering</td>
<td>x</td>
<td></td>
<td>x^1</td>
<td>x^15</td>
</tr>
<tr>
<td>Bioengineering Innovation &amp; Design</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Chemical and Biomedical Biology</td>
<td>x</td>
<td></td>
<td>x^18</td>
<td>x^1</td>
</tr>
<tr>
<td>Civil Engineering</td>
<td>x</td>
<td></td>
<td>x^18</td>
<td>x^1</td>
</tr>
<tr>
<td>Computer Engineering</td>
<td>x</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Computer Science</td>
<td>x^10</td>
<td></td>
<td>x^18</td>
<td>x^1</td>
</tr>
<tr>
<td>Electrical Engineering</td>
<td>x</td>
<td></td>
<td>x^18</td>
<td>x^1</td>
</tr>
<tr>
<td>Engineering Management</td>
<td>x</td>
<td></td>
<td>x^18</td>
<td>x^1</td>
</tr>
<tr>
<td>Environmental Engineering</td>
<td>x</td>
<td></td>
<td>x^18</td>
<td></td>
</tr>
<tr>
<td>Financial Mathematics</td>
<td>x</td>
<td></td>
<td>x^14</td>
<td>x^1 14</td>
</tr>
<tr>
<td>General Engineering</td>
<td>x^9</td>
<td></td>
<td>x^9</td>
<td></td>
</tr>
<tr>
<td>Geography</td>
<td>x^9</td>
<td></td>
<td>x^8</td>
<td>x</td>
</tr>
<tr>
<td>Geography and Environmental Engineering</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Materials Science and Engineering</td>
<td>x^18</td>
<td></td>
<td>x^1 15</td>
<td>x</td>
</tr>
<tr>
<td>Mechanical Engineering</td>
<td>x</td>
<td></td>
<td>x^18</td>
<td>x^1</td>
</tr>
<tr>
<td>Robotics</td>
<td>x^18</td>
<td></td>
<td>x^1</td>
<td></td>
</tr>
<tr>
<td>Security Engineering</td>
<td>x^18</td>
<td></td>
<td>x</td>
<td></td>
</tr>
<tr>
<td>Informatics</td>
<td>x</td>
<td></td>
<td>x^18</td>
<td></td>
</tr>
</tbody>
</table>

Natural Sciences Area

Near Eastern Studies x

Neuroscience x^7

Philosophy x^4 11 x

Physics x^4 10 x

Political Science x

Psychology x^11 x

Public Health Studies x^17

Romance Languages x

Sociology x^11 x

Spanish x^19 x 11 x

Writing Seminars x x
Notes on the Degrees

1. Candidates for the master’s as a terminal degree are accepted, but financial aid generally is not available.
2. Candidates for the master’s as a terminal degree may be accepted in special cases, but financial aid generally is not available.
3. Candidates are admitted to the Ph.D. program only, but the M.A. is awarded to students who (a) complete one year of courses, pass an examination in one foreign language, and submit an acceptable master’s essay to a member of the faculty or (b) complete two years of courses and pass an examination in two foreign languages.
4. Candidates for the master’s as a terminal degree are not accepted. However, a student is awarded a master’s degree en route to the Ph.D. after the successful completion of the Graduate Board oral examination.
5. A master of science in engineering or a master of materials science and engineering are offered.
6. See department listing.
7. M.S. available only to Arts and Sciences baccalaureate students.
8. M.A. only.
9. B.A. only.
10. B.A. or B.S. available.
11. Candidates are admitted to the Ph.D. program only, but the M.A. is awarded to students who complete requirements set by the director of graduate studies.
12. Applicants must currently be JHU undergraduate.
13. Within the Department of Biomedical Engineering.
14. Within the Department of Applied Mathematics and Statistics.
15. Within the School of Medicine.
16. Master’s degree awarded by the School of Advanced International Studies.
17. Master’s degree awarded by the School of Public Health.
18. Qualified Undergraduates from any AS or EN program are eligible to apply.
19. Area of Concentration

Minors


Part-time Graduate Programs in Arts and Sciences and Engineering

Advanced Academic Programs

Drawing upon over a century of research and teaching expertise, the Krieger School of Arts and Sciences Advanced Academic Programs offers advanced instruction in scientific fields of current interest and innovative graduate study in the humanities and social sciences. While based on the latest scientific and scholarly knowledge, course work emphasizes the application of such knowledge to practical problems. Classes are designed to provide individual attention, relevant application, and to encourage student contribution.

Courses are offered on a part-time basis at the Homewood campus in Baltimore; the Montgomery County Campus in Rockville, MD; the Arts and Sciences Washington Center in Washington, D.C.; and online. Most degree programs in AAP may be completed partially or fully online.

The School of Arts and Sciences recognizes the intellectual strength and education requirements of working adults and offers master’s degrees through the Advanced Academic Programs. Students can earn their master’s degree in:

- Applied Economics
- Bioinformatics
- Biotechnology
- Biotechnology Enterprise and Entrepreneurship
- Communication
- Energy Policy
- Environmental Sciences and Policy
- Geographic Information Systems
- Government
- Global Security Studies
- Liberal Arts
- Museum Studies
- Public Management
- Regulatory Science
- Science Writing
- Writing

There are also a variety of certificates and concentrations from which to choose, including certificates in:

- Biotechnology Education
- Biotechnology Enterprise
- Geographic Information Systems
- National Security Studies
- Nonprofit Management
- Post-master’s Certificate in Sequence Analysis and Genomics
- Health Science Intensive Concentration

AAP also has a number of dual MBA programs with the Carey Business School.

Further information, admission details, and catalogs may be obtained by phone (202) 452-1940, Email to aapadmissions@jhu.edu, or by visiting advanced.jhu.edu.

Johns Hopkins Engineering for Professionals

Engineering began at Hopkins in 1913, when university leaders decided to establish a curriculum that focused on professional education but included significant exposure to the liberal arts and scientific inquiry. Fostering interdisciplinary creativity, this unique approach
to engineering education was in turn emulated by many engineering schools throughout the United States. Over the intervening decades, thousands of working engineers and scientists earned engineering degrees at Hopkins through part-time study, achieving professional goals without interrupting their careers. That tradition continues today through the Whiting School’s Engineering for Professionals program, which offers part-time graduate courses in 15 disciplines that address industry trends and the latest advances in engineering and applied science. Classes are scheduled at convenient times during late afternoons and evenings and on Saturdays at campuses throughout the Baltimore-Washington region, including Aberdeen, Baltimore, Elkridge, Laurel, Rockville, Southern Maryland, Washington, D.C., and Crystal City, VA. Courses are also available online. Depending on their academic program, students earn either a master’s degree or a graduate or postgraduate certificate upon completing their studies.

Further information, applications, and catalogs may be obtained by calling 1-800-548-3647; visiting ep.jhu.edu; or writing to Johns Hopkins Engineering for Professionals, 6810 Deerpath Road, Suite 100, Elkridge, MD 21075. Email inquiries may be sent to jhep@jhu.edu.

Advanced Degree Programs in Other Hopkins Divisions

Carey Business School

**Master of Business Administration Degrees (full-time)**
- Johns Hopkins Global MBA
- Master of Business Administration/Master of Public Health

**Master of Business Administration Degrees (part-time)**
- Executive MBA
- Flexible MBA

**Master of Science Degrees**
- Enterprise Risk Management (part-time)
- Finance (full- and part-time)
- Health Care Management (part-time)
- Marketing (full- and part-time)
- Real Estate and Infrastructure (full- and part-time)

**Joint and Dual Degrees (part-time)**
- Master of Business Administration/Master of Science in Nursing
- Master of Business Administration/Master of Arts in Communication
- Master of Business Administration/Master of Arts in Government
- Master of Business Administration/Master of Science in Biotechnology
- MBA/Master of Environmental Engineering
- MBA/MS in Environmental Engineering and Science
- MBA/MS in Environmental Planning and Management
- MBA/MS in Design Leadership

Graduate Certificate Programs
- Financial Management
- Investments

School of Education

**Master of Arts in Teaching**
- Elementary Education
- Secondary Education

**Master of Education**
- Health Professions

**Master of Science in Education**
- Educational Studies
- Reading
- School Administration and Supervision
- Technology for Educators

**Master of Science in Special Education**
- Early Childhood Special Education
- General Special Education Studies
- Mild to Moderate Disabilities (Elementary/Middle, Secondary/Adult, Differentiated and Inclusive Education)
- Severe Disabilities
- Technology in special Education

**Master of Science in Counseling**
- Mental Health Counseling
- School Counseling

Graduate Certificate Programs in Education
- Adolescent Literacy Education
- Advanced Methods for Differentiated Instruction and Inclusive Education
- Applied Behavior Analysis* (pending approval)
- Assistive Technology
- Data-based Decision making and Organizational improvement
- Applied Behavior Analysis* (pending approval)
- Assistive Technology
- Data-based Decision Making and Organizational improvement
- Early Intervention/Preschool Special Education Specialist
- Earth/Space Science
- Education of Students with Autism and Other Pervasive Developmental Disorders
- Education of Students with Severe Disabilities
- Educational Leadership for Independent Schools
- Effective Teaching of Reading
- Emergent Literacy Education
- English as a Second Language (ESL) Instruction
- Evidence-Based Teaching in the Health Professions*
- Gifted Education
- K-8 Mathematics Lead-Teacher Education
- K-8 Science Lead-Teacher Education
- K-8 STEM (Science, Technology, Engineering, Mathematics) Lead-Teacher Education
- Leadership for School, Family, and Community Collaboration
- Leadership in Technology Integration
- Mental Health Counseling*
- Mind, Brain, and Teaching
- Online Teaching and Learning for Adults
- School Administration and Supervision
- Teacher Leadership: Instructional Leadership in School Settings
- Teaching the Adult Learner
Urban Education

**Certificate of Advanced Graduate Study**
Counseling

**Online Doctor of Education (Ed.D.) (pending approval)**

**Doctor of Philosophy in Education (Ph.D.)**
Division of Public Safety Leadership
Master of Science in Management
Master of Science in Intelligence Analysis

**School of Public Health**

**Master of Public Health**
School wide degree program

**Master of Health Administration**
Health Policy and Management

**Master of Health Science**
Biochemistry and Molecular Biology
Biostatistics
Environmental Health Sciences
Epidemiology
Graduate Training Program in Clinical Investigation
Health Behavior and Society
Health Policy and Management
International Health
Mental Health
Molecular Microbiology and Immunology
Population, Family and Reproductive Health

**Master of Public Policy**
Health Policy and Management

**Master of Science**
Biochemistry and Molecular Biology
Biostatistics
Environmental Health Sciences
Epidemiology
Graduate Training Program in Clinical Investigation
Health Behavior and Society
Molecular Microbiology and Immunology

**Master of Science in Public Health**
Environmental Health Sciences
Health, Behavior and Society
Health Policy and Management
International Health
Population, Family and Reproductive Health

**Doctor of Philosophy**
Biochemistry and Molecular Biology
Biostatistics
Environmental Health Sciences
Epidemiology
Graduate Training Program in Clinical Investigation
Health Behavior and Society
Health Policy and Management

**International Health**
Mental Health
Molecular Microbiology and Immunology
Population, Family and Reproductive Health

**Doctor of Public Health**
Environmental Health Sciences
Epidemiology
Health, Behavior and Society
Health Policy and Management
International Health
Mental Health
Population, Family and Reproductive Health

**Doctor of Science**
Epidemiology
Health, Behavior and Society

**Combined Programs**
BA/MHS or MSPH
MA/MSPH
MPH/JD
MPH/MBA
MPH/MD
MPH/MSW
MPH/MSN
MPH/General Preventive Medicine Residency
MPH/Occupational and Environmental Medicine Residency
MSPH/RD
MSPH/MI
MD/PhD
Doctoral/MHS in Biostatistics
Doctoral/MSPH in International Health
Doctoral/ScM

**School of Medicine**

**Doctor of Philosophy**
Biochemistry/Cellular and Molecular Biology
Biological Chemistry
Biophysics and Biophysical Chemistry
Cell Biology
Molecular Biology and Genetics
Neuroscience
Pharmacology
Physiology
Cellular and Molecular Medicine
Cellular and Molecular Physiology
Functional Anatomy and Evolution
Health Sciences Informatics
History of Medicine
Human Genetics
Immunology
Molecular Biology and Genetics
Neuroscience
Pathobiology
Pharmacology and Molecular Sciences

**Interdivisional Programs**
Biomedical Engineering
Program in Molecular Biophysics

**Master of Science**
- Applied Health Sciences Informatics
- Health Sciences Informatics
- Master of Arts
- Medical and Biological Illustration
- Certificate Program
- Certificate in Health Sciences Informatics

**Master of Arts**
- Medical and Biological Illustration

**Certificate Program**
- Certificate in Health Sciences Informatics

* Open only to students with master’s degrees.