Keep in Mind…

- This resource has been created to help you visualize how courses required for different concentrations interact with the premed/pre-health requirements and overall graduation timeline.

- In addition to looking through these charts, we strongly encourage you to talk with departmental representatives, faculty advisers, peer academic advisers, HPA, and any other resources / mentors who may be able to provide personalized perspective.
Keep in Mind…

- The sample schedules here each represent one of many ways to complete requirements for each concentration. Work with faculty in your department of interest to create a plan that fits your needs.

- The highlighted courses have been popular with past Princeton premeds. This does not imply that HPA recommends/requires that you take these courses. Take the electives that best fit your interests and academic goals.
  - HPA recommends 1-2 additional MOL/EEB courses for non-science concentrators

- The pre-requisites listed here represent the courses most common to medical school admission requirements. Double check schools of interest for their specific requirements.
“Demonstrate aptitude in the biological and physical sciences during their undergraduate years, but not to the exclusion of the humanities and social sciences. A study at Harvard Medical School has shown that students are successful in their medical studies regardless of undergraduate concentration, providing that they have had adequate science preparation. Students are urged to strive for a balanced and liberal education rather than specialized training. No preference is given to applicants who have majored in the sciences over those who have majored in the humanities.”

“The Admissions Committee has no preference as to a major field for undergraduate study and leaves this decision to students with the advice that they advance beyond the elementary level in the field of their choice rather than pursue an undirected program. A liberal education is the supporting structure for graduate study, and must encompass understanding of the humanities, arts, and society as well as the scientific foundations of technology and civilization. The student of medicine enters a profession closely allied to the natural sciences and must be prepared to cope with chemistry and biology at a graduate level.”
## Prerequisites at Popular Schools

<table>
<thead>
<tr>
<th>School</th>
<th>Gen Chem</th>
<th>Organic Chem</th>
<th>Biochem</th>
<th>Biology</th>
<th>Physics</th>
<th>Math</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>Columbia</td>
<td>2 years including 2 semesters Organic Chemistry</td>
<td></td>
<td></td>
<td>2 sem w/lab</td>
<td>2 sem w/lab</td>
<td></td>
<td>1 year of English</td>
</tr>
<tr>
<td>Mt. Sinai</td>
<td>2 sem</td>
<td>1 org w/lab + 1 bchm or 2 org w/lab</td>
<td>2 sem</td>
<td>2 sem or AP</td>
<td>2 sem or AP Rec Stats</td>
<td>1 year of English Rec stats, social science, Spanish/Mandarin</td>
<td></td>
</tr>
<tr>
<td>NYU</td>
<td>Rec</td>
<td>Rec</td>
<td>Rec</td>
<td>Rec</td>
<td>Rec</td>
<td></td>
<td>Rec. English, Genetics</td>
</tr>
<tr>
<td>Cornell</td>
<td>2 sem w/lab</td>
<td>1 org + 1 adv bio/ bchm or 2 org</td>
<td>2 sem w/lab</td>
<td>2 sem w/lab</td>
<td>Rec Calc &amp; Stats</td>
<td>1 year writing-intensive courses</td>
<td></td>
</tr>
<tr>
<td>Einstein</td>
<td>Focus on competencies rather than specific courses</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Jefferson</td>
<td>Focus on competencies rather than specific courses</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Penn</td>
<td>Focus on competencies rather than specific courses</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Rutgers RWJ</td>
<td>2 sem w/lab</td>
<td>1 org w/lab + 1 bchm or 2 org w/lab</td>
<td>2 sem w/lab</td>
<td>2 sem w/lab</td>
<td>2 sem</td>
<td>1 year of English Rec stats</td>
<td></td>
</tr>
<tr>
<td>Rutgers NJMS</td>
<td>2 sem w/lab</td>
<td>2 sem w/lab</td>
<td>Rec</td>
<td>2 sem w/lab</td>
<td>2 sem w/lab</td>
<td>Rec</td>
<td>1 year of English Rec. Genetics</td>
</tr>
<tr>
<td>Cooper (NJ)</td>
<td>2 sem w/lab</td>
<td>Rec</td>
<td>2 sem w/lab</td>
<td>Rec</td>
<td>Rec Stats</td>
<td>1 sem of English Rec. humanities, social science, ethics, Spanish</td>
<td></td>
</tr>
</tbody>
</table>

*yellow = recommended / green = required*
# Prerequisites at Popular Schools

<table>
<thead>
<tr>
<th></th>
<th>Gen Chem</th>
<th>Organic Chem</th>
<th>Biochem</th>
<th>Biology</th>
<th>Physics</th>
<th>Math</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>Harvard</td>
<td></td>
<td></td>
<td></td>
<td>2 sem w/lab</td>
<td>2 sem</td>
<td>Calc &amp; Stats</td>
<td>Lab experience within or outside of science courses; 1 year expository writing</td>
</tr>
<tr>
<td>BU</td>
<td>2 year sequence that covers general, organic and biochem</td>
<td>2 sem w/lab</td>
<td>2 sem w/lab</td>
<td></td>
<td></td>
<td></td>
<td>1 year English/Literature; 1 year humanities</td>
</tr>
<tr>
<td>Yale</td>
<td>2 sem w/lab</td>
<td>1 sem w/lab</td>
<td>1 sem</td>
<td>2 sem w/lab</td>
<td>2 sem w/lab</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Brown</td>
<td>2 sem</td>
<td>1 sem</td>
<td>1 sem</td>
<td>2 sem (rec lab)</td>
<td>2 sem w/lab</td>
<td>Calc</td>
<td></td>
</tr>
<tr>
<td>Johns Hopkins</td>
<td>2 sem w/lab</td>
<td>1 sem w/lab</td>
<td>1 sem</td>
<td>2 sem w/lab</td>
<td>2 sem w/lab</td>
<td>2 sem</td>
<td>6 courses in social sciences and humanities. Rec Genetics</td>
</tr>
<tr>
<td>UCSF</td>
<td>2 sem w/lab</td>
<td>2 sem</td>
<td>2 sem w/lab</td>
<td>2 sem w/lab</td>
<td>2 sem w/lab</td>
<td>Rec</td>
<td>Rec English, humanities, advanced Biology</td>
</tr>
<tr>
<td>Stanford</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Focus on competencies rather than specific courses</td>
</tr>
<tr>
<td>Keck USC</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Focus on competencies rather than specific courses</td>
</tr>
</tbody>
</table>

http://hpa.princeton.edu/pre-health-prep/academic-preparation/prerequisite-websites for more
## Prerequisites at Popular Schools

<table>
<thead>
<tr>
<th>School</th>
<th>Gen Chem</th>
<th>Organic Chem</th>
<th>Biochem</th>
<th>Biology</th>
<th>Physics</th>
<th>Math</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>U VA</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>No specific pre-reqs: recommend cell bio, biochem, human behavior, statistics</td>
</tr>
<tr>
<td>Emory</td>
<td>2 sem w/lab</td>
<td>2 sem w/lab</td>
<td>2 sem w/lab</td>
<td>2 sem w/lab</td>
<td></td>
<td></td>
<td>1 year of English 5 courses humanities/social sciences</td>
</tr>
<tr>
<td>Vanderbilt</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Focus on competencies rather than specific courses</td>
</tr>
<tr>
<td>Duke</td>
<td></td>
<td>1 sem</td>
<td>1 sem</td>
<td>2 sem</td>
<td>Stats</td>
<td></td>
<td>An understanding of sociology and psychology Writing-intensive courses</td>
</tr>
<tr>
<td>UNC</td>
<td>2 sem w/lab</td>
<td>2 sem w/lab</td>
<td>2 sem w/lab</td>
<td>2 sem w/lab</td>
<td></td>
<td></td>
<td>1 year of English/Lit 1 sem behavioral/soc sci</td>
</tr>
<tr>
<td>U Miami</td>
<td>2 sem w/lab</td>
<td>1 sem w/lab</td>
<td>1 sem</td>
<td>2 sem w/lab</td>
<td>2 sem w/lab</td>
<td></td>
<td>1 year of English 2 sems behavioral sci</td>
</tr>
<tr>
<td>Baylor</td>
<td>2 sem</td>
<td>1 sem</td>
<td>1 sem adv bio</td>
<td></td>
<td>1 sem</td>
<td></td>
<td>1 sem English, 4 courses in social sciences/humanities</td>
</tr>
<tr>
<td>UT Southwestern</td>
<td>1 sem w/lab</td>
<td>2 sem w/lab</td>
<td>1 sem</td>
<td>4 sem (2 w/lab)</td>
<td>2 sem w/lab</td>
<td>Calc or Stats</td>
<td>1 year English</td>
</tr>
</tbody>
</table>

For more information, visit [this website](http://hpa.princeton.edu/pre-health-prep/academic-preparation/prerequisite-websites).
# Prerequisites at Popular Schools

<table>
<thead>
<tr>
<th>School</th>
<th>Gen Chem</th>
<th>Organic Chem</th>
<th>Biochem</th>
<th>Biology</th>
<th>Physics</th>
<th>Math</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>U Chicago</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Focus on competencies rather than specific courses</td>
</tr>
<tr>
<td><strong>Northwestern</strong></td>
<td>2 sem w/lab</td>
<td>2 sem w/lab</td>
<td>Rec</td>
<td>2 sem w/lab</td>
<td>2 sem w/lab</td>
<td>Rec Stats</td>
<td>Rec English</td>
</tr>
<tr>
<td><strong>Wash U</strong></td>
<td>2 sem</td>
<td>1 org w/lab + 1 bchm or 2 org w/lab</td>
<td>2 sem</td>
<td>2 sem</td>
<td>2 sem</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Case 4 year</strong></td>
<td>2 sem w/lab</td>
<td>1 sem w/lab</td>
<td>1 sem</td>
<td>Rec</td>
<td>Rec</td>
<td>Rec</td>
<td>1 sem writing/English</td>
</tr>
<tr>
<td><strong>Case 5 year</strong></td>
<td>2 sem w/lab</td>
<td>1 sem w/lab</td>
<td>1 sem</td>
<td>Rec</td>
<td>Rec</td>
<td>Rec</td>
<td>1 sem English, significant research</td>
</tr>
<tr>
<td><strong>Ohio State</strong></td>
<td>2 sem w/lab</td>
<td>2 sem w/lab</td>
<td>1 sem</td>
<td>2 sem</td>
<td>2 sem w/lab</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>U Michigan</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Focus on competencies rather than specific courses</td>
</tr>
</tbody>
</table>

[http://hpa.princeton.edu/pre-health-prep/academic-preparation/prerequisite-websites](http://hpa.princeton.edu/pre-health-prep/academic-preparation/prerequisite-websites) for more
# University Requirements & Pre-Health

<table>
<thead>
<tr>
<th>Pre-Health Requirements</th>
<th>AB Gen Ed Requirements</th>
<th>BSE Gen Ed Requirements</th>
</tr>
</thead>
<tbody>
<tr>
<td>MOL 214 + EEB 211</td>
<td>STL</td>
<td>STL</td>
</tr>
<tr>
<td>CHM 201 + 202</td>
<td>STL</td>
<td>STL</td>
</tr>
<tr>
<td>CHM 303 + 304</td>
<td>STL</td>
<td>STL</td>
</tr>
<tr>
<td>MOL 345</td>
<td>STN</td>
<td>STN</td>
</tr>
<tr>
<td>PHY 101 + 102/108 or 103 + 104</td>
<td>STL</td>
<td>STL</td>
</tr>
<tr>
<td>MAT 103 + Stats</td>
<td>QR</td>
<td>QR</td>
</tr>
<tr>
<td>2 Semesters English</td>
<td>WRI</td>
<td>WRI</td>
</tr>
<tr>
<td></td>
<td>Lit course - LA</td>
<td>Lit course – LA</td>
</tr>
<tr>
<td>PSY / SOC (for MCAT prep)</td>
<td>2 SA</td>
<td>2 SA</td>
</tr>
</tbody>
</table>

By taking the pre-med pre-requisites, you can fulfill one LA, plus your STL and QR general education requirements. Planning your SA courses carefully, you can choose courses that help prep for the PSY/SOC portion of the MCAT.

Six additional courses in humanities & social sciences (across at least four distribution areas)
Anthropology

Courses required for ANTonly (9)

ANT 300 (SA)
ANT 301 (SA)
ANT 390 (HA)
6 departmentals

Courses that are ANT + Premed reqs (0)

EEB 211 (or AP + adv bio)
MOL 214
CHM 201 + 202
CHM 303 + 304
MOL 345
PHY 101 + 102/108
  or 103 + 104
MAT 103
Stats
Literature

Courses that are premed only (12)
## ANT Sample Schedule

<table>
<thead>
<tr>
<th>Year</th>
<th>Fall</th>
<th>Spring</th>
</tr>
</thead>
<tbody>
<tr>
<td>Frosh (8)</td>
<td>CHM 201&lt;br&gt;MAT103&lt;br&gt;ANTDepartmental 1&lt;br&gt;Language 1</td>
<td>CHM 202&lt;br&gt;MOL 214&lt;br&gt;WRI&lt;br&gt;Language 2</td>
</tr>
<tr>
<td>Soph (9)</td>
<td>CHM 303&lt;br&gt;EEB 211&lt;br&gt;ANTDepartmental 2&lt;br&gt;Gen Ed Elective (LA)</td>
<td>CHM 304&lt;br&gt;Stats&lt;br&gt;ANTDepartmental 3 [ANT335* – EM ]&lt;br&gt;Open Elective&lt;br&gt;Open Elective</td>
</tr>
<tr>
<td>Junior (8)</td>
<td>MOL 345&lt;br&gt;PHY 101&lt;br&gt;ANT300 (SA)&lt;br&gt;ANTDepartmental 4&lt;br&gt;JP</td>
<td>PHY 102/108&lt;br&gt;ANT301 (SA)&lt;br&gt;ANTDepartmental 5 [ANT206* – EC ]&lt;br&gt;ANTDepartmental 6&lt;br&gt;JP</td>
</tr>
<tr>
<td>Senior (6)</td>
<td>ANT390 (HA)&lt;br&gt;Open Elective&lt;br&gt;ENG / Gen Ed LA&lt;br&gt;Open Elective (HPA rec MOL/EEB)</td>
<td>Open Elective (HPA rec MOL/EEB)&lt;br&gt;Open Elective&lt;br&gt;Thesis (2)</td>
</tr>
</tbody>
</table>

*Courses popular with pre-health students

Consult with the department to discuss your specific course plans!
ANT Highlighted Departmentals

- ANT 206 / EEB 306 – Human Evolution (EC)
- ANT 215 / EEB 315 – Human Adaptation
- ANT 223 – Anthropology of the Psyche
- ANT 309 – Forensic Anthropology and Epigenetics in Urban America (SA/STL, Fall 2017)
- ANT 310 – Fundamentals of Biological Anthropology (EC)
- ANT 335 – Medical Anthropology (EM)
- ANT 380 / GHP 350 – Critical Perspectives in Global Health
- ANT 403 – Race and Medicine (EM, Spring 2017)
- ANT 415 – The Anthropology of Science (EC)
- ANT 442 – Death, Aging, and Mortality
- ANT 480 / GHP 401 – Global Health in Africa
Sample ANT Pre-Health Theses

- Bolivians In Brazil: The Interface Of Culture, Race, and Health in an Immigrant Community Of Sao Paulo
- Competing Discourses: Diabetes and the Narrative of First Nations Identity
- Cultivating Agents Of Change: Individual And Community Resilience In Chicago’s Teen Health Council
- An Ethnography of Care: Reclaiming Dignity for Boston's Chronically Homeless
- Imagining Partnerships: An Ethnography of Community Health Workers in a Global Health Intervention in Sierra Leone
- Navigating Uncertainty: Negotiations On The Care Of Extremely Preterm Infants
- Transience And The Lives Therein: An Ethnography Of Global Health And Care In Sierra Leone
- Weighty Matters: The Bioethics and Reclamation of Fat and the Doctor-Patient Relationship
ANT: Additional Resources

Undergraduate Announcement:
http://ua.princeton.edu/academic-units/department-department-anthropology#

Department website:
https://anthropology.princeton.edu/undergraduate-program/majoring-anthropology

Independent work guide:
https://undergraduateresearch.princeton.edu/independent-work/guides
Chemical & Biological Engineering

Courses required for CBE only (16)
- MAT 104, 201 + 202
- COS
- Diff EQ
- CBE 245 + 246
- CBE 250
- CBE 341
- CBE 346
- CBE 441
- CBE 442
- CBE 454 (thesis)
- Program electives (3)

Courses that are CBE + Premed reqs (10)
- MAT 103
- PHY 103 + 104
- CHM 201/207 + 202
- CHM 303 + 304*
- MOL 214/215
- MOL 345*
- WRI

Courses that are premed only (3)
- EEB 211 (or AP + adv bio)
- Stats (recommended)
- Literature

*CHM 304 & MOL 345 can count as program electives
# CBE Sample Schedule

<table>
<thead>
<tr>
<th></th>
<th>Fall</th>
<th>Spring</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Frosh (9)</strong></td>
<td>MAT 201</td>
<td>MAT 202</td>
</tr>
<tr>
<td></td>
<td>CHM 201</td>
<td>CHM 202</td>
</tr>
<tr>
<td></td>
<td>PHY 103</td>
<td>PHY 104</td>
</tr>
<tr>
<td></td>
<td>Gen Ed Elective 1</td>
<td>COS 126</td>
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<tr>
<td></td>
<td></td>
<td>WRI</td>
</tr>
<tr>
<td><strong>Soph (10)</strong></td>
<td>CBE 245*</td>
<td>CBE 246*</td>
</tr>
<tr>
<td></td>
<td>CHM 303</td>
<td>CHM 304*</td>
</tr>
<tr>
<td></td>
<td>Diff EQ</td>
<td>MOL 214</td>
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<tr>
<td></td>
<td>EEB 211</td>
<td>Gen Ed Elective 3 (PSY/SOC)</td>
</tr>
<tr>
<td></td>
<td>Gen Ed Elective 2 (PSY/SOC)</td>
<td>Gen Ed Elective 4 (Stats?)</td>
</tr>
<tr>
<td><strong>Junior (9)</strong></td>
<td>CBE 250*</td>
<td>CBE 346*</td>
</tr>
<tr>
<td></td>
<td>CBE 341*</td>
<td>CBE 441*</td>
</tr>
<tr>
<td></td>
<td>MOL 345*</td>
<td>Program Elective* (Stats?)</td>
</tr>
<tr>
<td></td>
<td>Program Elective*</td>
<td>Gen Ed Elective 6</td>
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<tr>
<td></td>
<td>Gen Ed Elective 5</td>
<td>Gen Ed Elective 7 ENG (LA)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>CBE 454*</td>
</tr>
<tr>
<td><strong>Senior (8)</strong></td>
<td>CBE 442*</td>
<td>Open Elective</td>
</tr>
<tr>
<td></td>
<td>Program Elective*</td>
<td>Open Elective</td>
</tr>
<tr>
<td></td>
<td>Gen Ed 7 ENG (LA)</td>
<td>Open Elective</td>
</tr>
<tr>
<td></td>
<td>CBE 454* (does not show</td>
<td>Open Elective</td>
</tr>
<tr>
<td></td>
<td>on transcript)</td>
<td></td>
</tr>
</tbody>
</table>

* = program requirement

Consult with the department to discuss your specific course plans!
## CBE Highlighted Departmentals

### BIOENGINEERING & BIOTECHNOLOGY
- CBE 440 – The Physical Basis of Human Disease
- CHM 440 – Drug Discovery in the Genomics Era
- EEB 325 – Mathematical Modeling in Biology & Medicine
- MOL 340 – Molecular & Cellular Immunology
- MOL 345 – Biochemistry
- NEU 408 – Cellular and Systems Neuroscience
- MOL 459 – Viruses: Strategies and Tactics
- MOL 523 – Molecular Basis of Cancer

### ENTREPRENEURSHIP & MANAGEMENT
- CHV 331 – Ethics & Public Health
- EGR 497 – Entrepreneurial Leadership
- ORF 245 – Engineering Stats

### SCI/ENG FOR NEW TECHNOLOGIES
- CHM 304 – Organic Chem II
- CHM 305 – Quantum World
- CHM 306 – Physical Chemistry
Sample Pre-Health Engineering Theses

- Construction of Fusion Lasso Peptides with Pharmaceutically-Relevant Sequences (CBE)
- Dissecting the circuitry of dopaminergic projections to the striatum with Cholera Toxin B (CBE)
- HackTrack: Improving Performance, Preventing Injury (COS)
- Investigating Peripheral Innervation and Epithelial Development in Embryonic Chicken Lungs (CBE)
- M.O.M: My Own Map HMM Techniques for Predicting Wandering in Alzheimer’s and Dementia Patients (COS)
- Towards improving the bioavailability of orally delivered malarial antimicrobials through nanoparticle formulations (CBE)
CBE: Additional Resources

Undergraduate Announcement:
https://ua.princeton.edu/academic-units/department-chemical-and-biological-engineering#

Department website:
https://www.princeton.edu/cbe/undergrad/

Independent work guide:
https://undergraduateresearch.princeton.edu/independent-work/guides
Chemistry

Courses required for CHM only (6)
- MAT104
- 2 departmentals (1 inorganic, 1 physical)
- core lab
- 2 cognates

Courses that are CHM + Premed reqs (8)
- CHM 201 + 202
- MAT103
- PHY 101+102 or 103+104
- CHM 303\(^1\) + 304\(^2\)
- MOL 345\(^2\)

Courses that are premed only (4)
- EEB 211 (or AP + adv bio)
- MOL 214/215
- Stats (recommended)
- Literature

\(^1\) CHM 303 counts as a departmental
\(^2\) CHM 304 and MOL 345 count as cognates
# CHM Sample Schedule

<table>
<thead>
<tr>
<th></th>
<th>Fall</th>
<th>Spring</th>
</tr>
</thead>
</table>
| **Frosh** (9) | CHM 201  
MAT 103  
Gen Ed Elective  
Language 1  |
| **Soph** (8)   | CHM 303 (Departmental 1)  
PHY 101/103  
Gen Ed Elective  
Stats  |
| **Junior** (8) | CHM Core Lab (Departmental 2)  
CHM Departmental 3  
EEB 211  
Gen Ed Elective  
JP  |
| **Senior** (6) | CHM Cognate 3  
CHM Departmental 4  
ENG / Gen Ed LA  
Open Elective  |

Consult with the department to discuss your specific course plans!
CHM Highlighted Departmentals

- CHM 440 – Drug Discovery in the Genomics Era
- CHM 306 – Physical Chem: Chemical Thermodynamics & Kinetics
- Cognates in MOL, EEB, CBE
Sample Pre-Health CHM Theses

- The Chemoenzymatic Synthesis of the Glycopeptide Antibiotic Vancomycin
- Using Chemical Patterning to Spatially Control Cell Growth: A Versatile Technology for Improving Tissue Engineering Devices
- Delivery Of Synthesized Entities to Specific Genomic Loci in Mammalian Cells Via a Modified CRISPR/Cas9 System
- A Mechanistic Investigation of Serine Hydroxymethyltransferase Inhibition In Lymphoma and Leukemia Cell Lines
- Progress Towards A Method For the Solid Phase Synthesis of Pyrophosphorylated Peptides
- Structural Characterizations Of Proteins in an Antibiotic Biosynthesis Pathway Using Small Angle X-ray Scattering and X-ray Crystallography
- Templating Cell Alignment Inside Polymer Tubes and on Hydrogel Surfaces For Peripheral and Central Nervous System Repair
CHM: Additional Resources

Undergraduate Announcement:  
http://ua.princeton.edu/academic-units/department-chemistry#

Department website:  
https://chemistry.princeton.edu/undergraduate

Independent work guide:  
https://undergraduateresearch.princeton.edu/independent-work/guides

HPA Peer Advisers:

Mimi Chung ‘18  
CHM  
mimi.chung@princeton.edu

Megan Chung ‘19  
CHM  
Global Health & Health Policy  
meganchung@princeton.edu

Colin Yost ‘19  
CHM  
cyost@princeton.edu
Ecology & Evolutionary Biology

Courses required for EEB only (6)

- 6 EEB departmentals*
  - *EEB requires eight departmentals, but CHM 304 + MOL 345 count as two of them
  - Can count 1 policy course as departmental

Courses that are EEB + Premed reqs (10)

- EEB 211 + MOL 214
- CHM 201 + 202
- MAT 103
- Stats
- PHY 101 or 103
- CHM 303 + 304
- MOL 345

Courses that are premed only (2)

- PHY 102, 104 or 108
- Literature
# EEB Sample Schedule

<table>
<thead>
<tr>
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<th>Spring</th>
</tr>
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| Frosh (9) | CHM 201  
           MAT103  
           Gen Ed Elective  
           Language 1 | CHM 202  
           MOL 214  
           WRI  
           Gen Ed Elective  
           Language 2 |
| Soph (8) | CHM 303 (departmental 1)  
           EEB 211  
           Gen Ed Elective  
           Open Elective | CHM 304 (departmental 2)  
           Stats  
           Gen Ed Elective  
           Open Elective |
| Junior (8) | PHY 101  
           MOL 345 (Departmental 3)  
           Departmental 4  
           Gen Ed Elective  
           JP | PHY 102 or 108  
           Departmental 5  
           Departmental 6  
           Gen Ed Elective  
           JP |
| Senior (6) | Departmental 7  
           ENG / Gen Ed LA  
           Open Elective | Departmental 8  
           Open Elective  
           Open Elective  
           Thesis (2) |

Consult with the department to discuss your specific course plans!
EEB Highlighted Approved Departmentals

- EEB/ENV 304 – Disease Ecology, Economics and Policy
- EEB 306/ANT 206 – Human Evolution (EC)
- EEB 314 – Comparative Physiology
- EEB 315/ANT 215 – Human Adaptation
- EEB 325 – Mathematical Modeling in Biology and Medicine
- EEB 328 – Ecology and Epidemiology of Parasites and Diseases
- EEB/PSY 336 – The Diversity of Brains (EC)
- ANT 431 – Biomedical Anthropology
- CHV 331* – Ethics and Public Health
- CBE 439 – Quantitative Physiology & Tissue Design
- ECO 322* – Economics of Health and Healthcare
- WWS 316* – Health and the Environment
- WWS 320* – Human Genetics, Reproduction, and Public Policy
- All advanced MOL courses

*policy course

http://www.princeton.edu/eeb/undergraduate-studies/approved/
Sample Pre-Health EEB Theses

- At Risk: Modeling HIV/Hepatitis C Coinfection and Interventions in Urban Populations A Case Study of Newark, NJ
- Challenging The Miracle Drug: Alterations in Prophylactic and Therapeutic Agents For Patients With Self-reported Penicillin Allergies
- Climatic Drivers Of Diarrheal Disease In Thailand: The Role Of Helminth Co-infection
- Community-based Care For Maternal Health Among Pastoralists in Laikipia, Kenya
- HIGH STEAKS: Quantifying The Effects Of A User Fee On Antibiotic Use in Livestock and Identifying Policy Implications
- The Impact Of School Closure and Vaccination On Hand-Foot-and-Mouth Disease Transmission Dynamics In China
- Vector-borne Disease Management: An Analysis of Healthcare Seeking Behavior For Chagas Disease and Dengue Fever
- The Zika Virus And Congenital Birth Defects: An Investigation Into the Role Of The Placenta and the Time Of Infection
EEB: Additional Resources

Undergraduate Announcement:
http://ua.princeton.edu/academic-units/department-ecology-and-evolutionary-biology#

Department website:
http://www.princeton.edu/eeb/undergraduate-studies/

Independent work guide:
https://undergraduateresearch.princeton.edu/independent-work/guides

HPA Peer Adviser:
Korlekuor Akiti ’19 EEB Global Health & Health Policy ckakiti@princeton.edu
Molecular Biology

Courses required for MOL only (5)
- MOL 342
- MOL 348
- MOL 350
- +2 departmental

Courses that are MOL + Premed reqs (11)
- MAT 103
- Stats
- PHY 101 or 103 + 108
- CHM 201 + 202
- CHM 303 + 304
- MOL 214
- MOL 345
- WRI

Courses that are premed only (2)
- EEB 211 (or AP)
- Literature

Courses that are MOL + Premed reqs (11)
- MAT 103
- Stats
- PHY 101 or 103 + 108
- CHM 201 + 202
- CHM 303 + 304
- MOL 214
- MOL 345
- WRI

Courses that are premed only (2)
- EEB 211 (or AP)
- Literature
# MOL Sample Schedule

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</table>

*Consult with the department to discuss your specific course plans!*  

For more sample timelines: molbio.princeton.edu/undergraduate/molecular-biology-major/typical-paths
## MOL Selected Departmentals

- CHM 440 – Drug Discovery in the Genomics Era
- CBE 440 – The Physical Basis of Human Disease
- EEB 314 – Comparative Physiology
- EEB 327 – Immune Systems: Molecules to Populations
- ENV 304 – Disease Ecology, Economics, and Policy
- GHP 350 – Critical Perspectives on Global Health & Health Policy
- MOL 340 – Molecular & Cellular Immunology
- MOL 340 – Modern Microbiology & Disease
- MOL 425 – Infection: Biology, Burden and Policy
- MOL 459 – Viruses: Strategies and Tactics
- MOL 460: Diseases in Children: Causes, Costs, and Choices
- PSY/NEU 336 – The Diversity of Brains (EC)
- NEU 402 – Intro to Clinical Neuropsychology
- NEU 408 – Cellular & Systems Neuroscience

*Not an exhaustive list! Check Course Offerings each term.*
Sample Pre-Health MOL Theses

• The 100-Year Struggle: The Search for a New Vaccine for Tuberculosis
• Characterization of Rotavirus Strains in Ghana Before and After Vaccine Introduction
• Control of Synapse Density by Major Histocompatibility Complex Class I Immune Proteins
• Development of experimental cell culture and animal models to recapitulate persistent hepatitis B virus infection
• Establishing Zebrafish Cilia Motility Mutants as Models of Human Idiopathic Scoliosis
• Improving Detection of Adenovirus Infections Following Hematopoietic Stem Cell Transplants
• Investigating the potential role of the formin protein mDia1 in extracellular matrix assembly and diabetic kidney disease
• Mapping CqsS Binding and Activation in Vibrio Cholerae
• The Regulation of Elf5 Methylation in Breast Cancer Progression
MOL: Additional Resources

Undergraduate Announcement:
https://ua.princeton.edu/academic-units/department-molecular-biology#

Department website:
http://molbio.princeton.edu/undergraduate

Independent work guide:
https://undergraduateresearch.princeton.edu/independent-work/guides

HPA Peer Advisers:

<table>
<thead>
<tr>
<th>Name</th>
<th>Major</th>
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<tbody>
<tr>
<td>Gaby Joseph ‘18</td>
<td>MOL</td>
<td><a href="mailto:gj2@princeton.edu">gj2@princeton.edu</a></td>
</tr>
<tr>
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<td>MOL Neuroscience</td>
<td><a href="mailto:rubyguo@princeton.edu">rubyguo@princeton.edu</a></td>
</tr>
<tr>
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<td>MOL Quantitative &amp; Computational Bio</td>
<td><a href="mailto:jcasazza@princeton.edu">jcasazza@princeton.edu</a></td>
</tr>
<tr>
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</tr>
<tr>
<td>Fernanda Fernandez ‘19</td>
<td>MOL Global Health &amp; Health Policy</td>
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</tr>
<tr>
<td>Liz Reznik ’18</td>
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<td><a href="mailto:ereznik@princeton.edu">ereznik@princeton.edu</a></td>
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Neuroscience (class of 2020 and later)

Courses required for NEU only (10)
- NEU 201
- NEU 202
- NEU 350
- NEU 314
- +5 departmentals
- +1 behavior course (some also fulfill gen eds)

Courses that are NEU + Premed reqs (5)
- MAT 103
- SML 201 (stats)
- MOL 214
- PHY 101 + 102

Courses that are premed only (7)
- CHM 201 + 202
- CHM 303 + 304
- EEB 211
- MOL 345
- Literature
**NEU Sample Schedule**

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<td>SML 201 (NEU quant req)</td>
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<td>Thesis (2)</td>
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Consult with the department to discuss your specific course plans!
Neuroscience
Highlighted Departmentals/Cognates

**Departmentals**
- MOL/NEU 447 – Neuroimmunology
- MOL 459 – Viruses: Strategy and Tactics
- NEU / PSY 413 – Stress, Resilience and Illness
- PSY / NEU 331 – Intro to Clinical Neuropsychology
- PSY/NEU 480 – fMRI Decoding
- PSY/NEU 516 – Brain Imaging in Cognitive Neuro Research

**Behavior Courses**
- PSY 207 – Psychopathology
- PSY 255 – Cognitive Psyc (EC)
- PSY/NEU 345 – Sensation & Perception (EC)
- PSY 254 – Developmental Psyc (EC)
Sample NEU Pre-Health Theses

- Why We Can’t Text and Drive: An Experimental Study of the Tradeoff of Learning Efficiency and Multitasking Capacity in Human Cognition
- Excessive Deliberation in Social Anxiety: Using Neuroeconomic Applications to Improve Characterizations, Diagnostic Criteria, and Treatment Options for Social Anxiety Disorder

NEU: Additional Resources

Undergraduate Announcement:
http://ua.princeton.edu/academic-units/neuroscience-ab-through-princeton-neuroscience-institute#

Department website:
https://pni.princeton.edu/education/undergraduate-concentration

Independent work guide:
https://undergraduateresearch.princeton.edu/independent-work/guides
Psychology (class of 2019 and later)

Courses required for PSY only (10)
- PSY 252 (SA)
- PSY 255
- PSY 258 or NEU 175
- PSY 300
- 2 PSY 2xx or higher
- 3 PSY 3xx or higher
- 1 PSY 4xx

Many also count as EC, SA

Courses that are PSY + Premed reqs (2)
- MOL 214
- PSY 251

Courses that are premed only (10)
- EEB 211 (or AP + adv bio)
- CHM 201 + 202
- CHM 303 + 304
- MOL 345
- MAT 103
- PHY 101 + 102/108
- Literature
# PSY Sample Schedule (2019 and later)

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| **Frosh** (9) | CHM 201  
                  MAT 103  
                  PSY 252 (SA)  
                  Language 1 | CHM 202  
                  MOL 214  
                  WRI  
                  Gen Ed Elective (HA)  
                  Language 2 |
| **Soph** (8)   | CHM 303  
                  EEB 211  
                  PSY 255  
                  Gen Ed Elective (EM) | CHM 304  
                  PSY 251  
                  PSY 2xx (SA)  
                  Gen Ed Elective (LA) |
| **Junior** (8) | MOL 345  
                  PHY 101  
                  PSY 258 or NEU 175  
                  PSY 3xx (EC)  
                  JP | PHY 102/108  
                  PSY 300  
                  PSY 2xx  
                  Open Elective  
                  JP |
| **Senior** (6) | PSY 3xx  
                  ENG / Gen Ed LA  
                  Open Elective | PSY 3xx  
                  PSY 4xx  
                  Open Elective  
                  Thesis (2) |

Consult with the department to discuss your specific course plans!
Psychology
Highlighted Departmentals/Cognates

Departmentals

• PSY 207 – Pathopsychology (SA)
• PSY 254 – Developmental Psyc (EC)
• PSY 255 – Cognitive Psyc (EC)
• PSY 317 – Health Psyc (SA)
• PSY 336 – Diversity of Brains (EC)
• NEU 201 / PSY 258 – Fundamentals of Neuroscience
• NEU 202 / PSY 259 – Intro to Cognitive Neuroscience (EC/STL)
• PSY/NEU 402 – Intro to Clinical Neuropsychology
• PSY/NEU 480 – fMRI Decoding
• PSY/NEU 516 – Brain Imaging in Cognitive Neuro Research
Sample Pre-Health Psychology Theses

- The Effects of Treatment Type on Stigma Towards Those With Depression and Posttraumatic Stress Disorder
- "Genuine Medicine": Effects of a Novel Service-Oriented Music Program on Empathy, Self-Esteem, and Prosocial Behavior in Delinquent Youth
- Racial Disparities in Mental Health Among Undergraduates
- Utilizing Neural Gain as a Model for Explaining Features of Autism Spectrum Disorders: The effects of constitutive locus coeruleus activity on attention-based learning
- Using pediatric growth curves in secondary prevention of eating disorders: Closing the diagnostic gap between onset of growth stunting or BMI suppression and clinical presentation
- Will the Doctor See You Now? Racial Bias and Expectation in Medical Interviewing
PSY: Additional Resources

Undergraduate Announcement:
http://ua.princeton.edu/academic-units/department-psychology#

Department website:
https://psych.princeton.edu/undergraduate-program

Independent work guide:
https://undergraduateresearch.princeton.edu/independent-work/guides

HPA Peer Adviser:
Maggie Pecsok ’18  PSY  Neuroscience  pecsok@princeton.edu
Woodrow Wilson School (class of 2020 and later)

Courses required for WWS only (14)
- HIS prereq
- Microecon prereq
- POL/SOC/PSY prereq
- WWS Core econ
- WWS Core politics
- WWS Core SOC/PSY
- WWS Core science policy
- WWS Core ethics (EM/EC)
- WWS Policy Seminar
- Language (beyond U req)
- Field experience
- + 4 electives (some also fulfill gen eds)

Courses that are WWS + Premed reqs (1)
- Stats
  - (recommend WWS 200 or POL 345 for ‘21s)

Courses that are premed only (11)
- EEB 211 (or AP + adv bio)
- MOL 214
- CHM 201 + 202
- CHM 303 + 304
- MOL 345
- PHY 101 + 102/108 or 103 + 104
- MAT 103
- Literature

By choosing prereqs, core, and electives carefully, WWS majors can fulfill most distribution requirements.
## WWS Sample Schedule

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<td>CHM 202, HIS prereq (HA), WRI, Language 2, Open Elective</td>
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<td>MOL 345, PHY 101, WWS Core 2, WWS Elective 1, JP</td>
<td>PHY 102/108, WWS Core 3, WWS Core 4, WWS Policy Seminar, JP</td>
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<tr>
<td>Senior</td>
<td>WWS Elective 2, ENG / Gen Ed LA, Gen Ed Elective (EM/EC)</td>
<td>WWS Core 5, WWS Elective 3, WWS Elective 4, Thesis (2)</td>
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By choosing prereqs, core, and electives carefully, WWS majors can fulfill most distribution requirements.
## WWS Highlighted Courses

### Prerequisites
- HIS 393 – Race, Drugs, and Drug Policy in America (HA)
- HIS 396 – History of Biology (HA)
- HIS 312 / GSS 394 – History and the Body (HA)

### Core
- WWS 354 – Modern Genetics and Public Policy (SA) – science policy

### Electives
- ANT 335 – Medical Anthropology (EM)
- ANT 403 – Race and Medicine (EM)
- CHV 331 – Ethics & Public Health (EM)
- ECO 332 – Economics of Health Care (SA)
- GHP 350 – Critical Perspectives on Global Health (SA)
- GSS 420 – Born in USA: Culture and Reproduction (SA)
- MOL 425 – Infection: Biology, Burden and Policy
- PSY 317 – Health Psychology (SA)
- SOC 227 – Race and Ethnicity (SA)
Sample Pre-Health WWS Theses

- The Cost of Negligence: Fiscal and public health benefits of investing in refugee healthcare
- Don’t Hold Your Breath: The Effect of the Affordable Care Act on Pediatric Asthma
- Female Autonomy and Contraceptive Use in Central Asia
- The Harmonization of Health Policy in the European Union: An Integrated, Neo-Functional Explanation
- Home is Where Your Health Is: Exploring Cross-Sector Partnerships that Care for the Chronically Homeless
- Improving Health in Minority Communities: Evaluating the Medicaid Expansion as an Intervention in Urban Environments
- Organ Transplantation Policy: Reducing the Kidney Deficit
- Reducing Hospital Readmissions in the Wake of the Affordable Care Act: Focus on Transition of Care and Social Determinants
- Retention of the Affordable Care Act’s Medicaid Primary Care Parity: Crafting Reimbursement Policies to Optimize Access to Care
WWS: Additional Resources

Undergraduate Announcement:
http://ua.princeton.edu/academic-units/woodrow-wilson-school#

Department website:
http://wws.princeton.edu/undergraduate-academics

Independent work guide:
https://undergraduateresearch.princeton.edu/independent-work/guides

HPA Peer Advisers:

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<tr>
<th>Name</th>
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<tbody>
<tr>
<td>Dahlia Kaki '18</td>
<td>WWS</td>
<td>Global Health &amp; Health Policy</td>
<td><a href="mailto:dkaki@princeton.edu">dkaki@princeton.edu</a></td>
</tr>
<tr>
<td>Joseph Wood '18</td>
<td>WWS</td>
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</tr>
<tr>
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</tr>
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</tr>
</tbody>
</table>
**Humanities / Social Sciences (generally)**

**Prereqs and Departmentals (8)**
- Number of departmentals varies with concentration, but many are 8-10
- Departmentals often overlap with gen eds

**Courses that overlap (0)**

**Courses that are premed only (12)**
- EEB 211 (or AP + adv bio)
- MOL 214
- CHM 201 + 202
- CHM 303 + 304
- MOL 345
- PHY 101 + 102/108
- MAT 103
- Stats
- Literature
# Humanities/Social Science Sample Schedule

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*Consult with departments of interest to discuss your specific plans!"
## Medically- Relevant Hum/Social Sci Courses

- AMS 309 – History of Disability (SA)
- EAS 306 – Sexuality, Public Culture & Medicine in East Asia (SA)
- EAS 312 – Mind, Body and Bioethics in Japan and Beyond (EM)
- ECO 332 – Economics of Health and Health Care (SA)
- HIS 393 – Race, Drugs and Drug Policy in America (HA)
- HIS 394 – The Rise of Modern Biomedicine (HA)
- HIS 395 – History of Medicine and the Body (HA)
- PHI 344 / CHV 333 – Bioethics (EM)
- PHI 385 / CHV 310 – Practical Ethics (EM)
- REL 242 – Jewish Thought and Modern Society (EM)
- REL 261 – Christian Ethics and Modern Society (EM)
- REL 382 – Death and the Afterlife in Buddhist Cultures (HA)
- SOC 364 – Sociology of Medicine (SA)
- SOC 365 – Health, Society and Politics (SA)
- SOC 420 – Born in the USA: Culture & Reproduction in Modern America (SA)
- SPA 205 – Medical Spanish

See HPA Med/Health Related Courses every semester online: [http://www.princeton.edu/hpa/premed/coursework/](http://www.princeton.edu/hpa/premed/coursework/)
Sample Pre-Health Social Science Theses

- Not So Sweet: The Effect of Food Insecurity on Adult Diabetes Risk (ECO)
- Pharmaceuticals, Patients, and Preserving International Protocol: TRIPS Enforcement in Brazil and South Africa (POL)
- The Federal Politics of Medical Malpractice (POL)
- Global Access to End-of-Life Care: An Intrinsic Dignity-Based Theory of Holistic Health Justice (POL)
- Beyond Pro-Life and Pro-Choice: Race, Class, and Women’s Reproductive Rights Narratives (SOC)
- Hypertension: A Consequence of Racial Discrimination? (SOC)
- An Exploration of the Role of Shame in the Doctor-Patient Relationship for Type 2 Diabetes Patients (SOC)
- Beyond Pro-Life and Pro-Choice: Race, Class, and Women’s Reproductive Rights Narratives (SOC)
Sample Pre-Health Humanities Theses

• Death and Dying in Ancient Greek Medicine (CLA)
• Writing an Epidemic; Fighting an Epidemic: The Memoirs of People with AIDS in the 1980s and 1990s (ENG)
• “Eternal Father, Strong to Save”: The US Navy Medical Department in the Korean Conflict, 1950-1953 (HIS)
• "Revolution of Falling Expectations": Bertram Brown and the Political Psychiatry of Community Mental Health (1963-1978) (HIS)
• Rural Health Care in Central Iran: A Study from the Patients’ and the Government’s Perspectives (NES)
• Is Commercial Surrogacy Morally Problematic? (PHI)
• When Bodies Break: An Exploration of Christian Responses to Leprosy and AIDS (REL)
• Midwives and Medicalization: Reading Childbirth In Russian Literature (SLA)
• The Spanish Health Care System and Treatment of Immigrants (SPO)
Additional resources

• Princeton Major Choices website: http://odoc.princeton.edu/advising/choosing-major

• Departmental Independent Work Guides: http://undergraduateresearch.princeton.edu/independent-work/guides

• Princeton Career Services Major Exploration guide: http://careerservices.princeton.edu/undergraduate-students/major-career-choices/major-exploration
### HPA Peer Advisers by department: hpa.princeton.edu/about-hpa/hpa-peer-advisers

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### Additional resources

HPA Peer Advisers by college: [hpa.princeton.edu/about-hpa/hpa-peer-advisers](hpa.princeton.edu/about-hpa/hpa-peer-advisers)

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