School of Natural Sciences and Mathematics

Bachelor of Arts in Biology and Criminology (Double Major)

Degree Requirements (134-137 semester credit hours)¹, ²

EPPS Faculty

**Professors:** Denise Paquette Boots, Bruce A. Jacobs, Alex R. Piquero, Nicole Leeper Piquero, Lynne M. Vieraitis, John L. Worrall
**Associate Professors:** Nadine Connell, Tomislav Kovandzic
**Clinical Professor:** Elmer Polk
**Assistant Professors:** Jonathan Maskaly, Andrew Wheeler
**Associate Professor of Practice:** Timothy M. Bray
**Senior Lecturer:** Galia Cohen

NSM Faculty

**Professors:** Lee A. Bulla, Rockford K. Draper, Juan E. González, Lawrence J. Reitzer, Stephen Spiro, Li Zhang, Michael Qiwei Zhang
**Professors Emeritus:** Hans Bremer, Donald M. Gray
**Clinical Professor:** David Murchison
**Associate Professors:** Gail A. M. Breen, John G. Burr, Jeff L. Dejong, Heng Du, Ernest M. Hannig, Tae Hoon Kim, Dennis L. Miller, Kelli Palmer, Duane D. Winkler, Zhenyu Xuan
**Assistant Professors:** Nikki Delk, Jung-whan (Jay) Kim, Faruck Morcos, Hyuntae Yoo
**Research Assistant Professor:** Lan Guo
**Senior Lecturers:** Irina Borovkov, Mehmet Candas, Vincent P. Cirillo, Brenna Hill, Wen-Ju Lin, Meenakshi Maitra, Robert C. Marsh, Jing Pan, Elizabeth Pickett, Ruben D. Ramirez, Scott A. Rippel, Elizabeth L. Rugg, Ilya Sapozhnikov, Uma Srikanth, Michelle Wilson, Wen-Ho Yu

I. Core Curriculum Requirements: 42 semester credit hours³

**Communication:** 6 semester credit hours

**COMM 1311** Survey of Oral and Technology-based Communication

**RHET 1302** Rhetoric

**Mathematics:** 3 semester credit hours

Choose one course from the following:

**MATH 1325** Applied Calculus ¹

**MATH 2413** Differential Calculus ⁴, ⁵, ⁶

**Life and Physical Sciences:** 6 semester credit hours

**CHEM 1311** General Chemistry ¹
CHEM 1315 Honors Freshman Chemistry I
CHEM 1312 General Chemistry II
or CHEM 1316 Honors Freshman Chemistry II

Language, Philosophy and Culture: 3 semester credit hours
Select any 3 semester credit hours from Language, Philosophy, and Culture core courses (see advisor)

Creative Arts: 3 semester credit hours
Select any 3 semester credit hours from Creative Arts core courses (see advisor)

American History: 6 semester credit hours
HIST 1301 U.S. History Survey to Civil War
HIST 1302 U.S. History Survey from Civil War
Or select any 6 semester credit hours from American history core courses (see advisor)

Government / Political Science: 6 semester credit hours
GOVT 2305 American National Government
GOVT 2306 State and Local Government

Social and Behavioral Sciences: 3 semester credit hours
Choose one course from the following:
CRIM 1301 Introduction to Criminal Justice
CRIM 1307 Introduction to Crime and Criminology
ECON 2301 Principles of Macroeconomics
SOC 1301 Introduction to Sociology
Or select any 3 semester credit hours from Social and Behavioral Sciences core courses (see advisor)

Component Area Option: 6 semester credit hours
MATH 2414 Integral Calculus
or STAT 2332 Introductory Statistics for Life Sciences
or EPPS 2302 Methods of Quantitative Analysis in the Social and Policy Sciences
or EPPS 2303 Descriptive and Inferential Statistics for the Social and Policy Sciences
ECON 2302 Principles of Microeconomics

II. Major Requirements: 77-80 semester credit hours
### Biology Major Preparatory Courses: 18-21 semester credit hours beyond Core Curriculum

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td>CHEM 1111</td>
<td>General Chemistry Laboratory I</td>
<td></td>
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<tr>
<td>or CHEM 1115</td>
<td>Honors Freshman Chemistry Laboratory I</td>
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<tr>
<td>CHEM 1112</td>
<td>General Chemistry Laboratory II</td>
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<tr>
<td>or CHEM 1116</td>
<td>Honors Freshman Chemistry Laboratory II</td>
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<tr>
<td>CHEM 1311</td>
<td>General Chemistry I</td>
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<tr>
<td>or CHEM 1315</td>
<td>Honors Freshman Chemistry I</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 1312</td>
<td>General Chemistry II</td>
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<tr>
<td>or CHEM 1316</td>
<td>Honors Freshman Chemistry II</td>
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<tr>
<td>CHEM 2123</td>
<td>Introductory Organic Chemistry Laboratory I</td>
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<tr>
<td>CHEM 2125</td>
<td>Introductory Organic Chemistry Laboratory II</td>
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<tr>
<td>CHEM 2323</td>
<td>Introductory Organic Chemistry I</td>
<td>7</td>
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<td>CHEM 2325</td>
<td>Introductory Organic Chemistry II</td>
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<tr>
<td>MATH 2413</td>
<td>Differential Calculus and MATH 2414 Integral Calculus</td>
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<tr>
<td>or MATH 1325</td>
<td>Applied Calculus I</td>
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<tr>
<td>and STAT 2332</td>
<td>Introductory Statistics for Life Sciences</td>
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<tr>
<td>or EPPS 2302</td>
<td>Methods of Quantitative Analysis in the Social and Policy Sciences</td>
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<tr>
<td>or EPPS 2303</td>
<td>Descriptive and Inferential Statistics for the Social and Policy Sciences</td>
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<tr>
<td>PHYS 2325</td>
<td>Mechanics and PHYS 2125 Physics Laboratory I</td>
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<td>or PHYS 2421</td>
<td>Honors Physics I - Mechanics and Heat</td>
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<tr>
<td>or PHYS 1301</td>
<td>College Physics I and PHYS 2125 Physics Laboratory I</td>
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<tr>
<td>PHYS 2326</td>
<td>Electromagnetism and Waves and PHYS 2126 Physics Laboratory II</td>
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<tr>
<td>or PHYS 2422</td>
<td>Honors Physics II - Electromagnetism and Waves and PHYS 2126 Physics Laboratory II</td>
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<tr>
<td>or PHYS 1302</td>
<td>College Physics II and PHYS 2126 Physics Laboratory II</td>
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### Biology Major Core Courses: 32 semester credit hours

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td>BIOL 2111</td>
<td>Introduction to Modern Biology Workshop I</td>
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<tr>
<td>BIOL 2112</td>
<td>Introduction to Modern Biology Workshop II</td>
<td>7</td>
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<tr>
<td>BIOL 2281</td>
<td>Introductory Biology Laboratory</td>
<td>7</td>
</tr>
<tr>
<td>BIOL 2311</td>
<td>Introduction to Modern Biology I</td>
<td>7</td>
</tr>
<tr>
<td>BIOL 2312</td>
<td>Introduction to Modern Biology II</td>
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</tbody>
</table>
BIOL 3101 Classical and Molecular Genetics Workshop
BIOL 3102 Eukaryotic Molecular and Cell Biology Workshop
BIOL 3161 Biochemistry Workshop I
BIOL 3162 Biochemistry Workshop II
BIOL 3301 Classical and Molecular Genetics
BIOL 3302 Eukaryotic Molecular and Cell Biology
BIOL 3318 Forensic Biology
BIOL 3361 Biochemistry I
BIOL 3362 Biochemistry II
    or BIOL 3335 Microbial Physiology
BIOL 3380 Biochemistry Laboratory

Criminology Major Preparatory Courses: 3 semester credit hours beyond Core Curriculum
   CRIM 1301 Introduction to Criminal Justice
   CRIM 1307 Introduction to Crime and Criminology
   ECON 2301 Principles of Macroeconomics
     or ECON 2302 Principles of Microeconomics

Criminology Core Courses: 24 semester credit hours
   CRIM 3300 Crime and Civil Liberties
   CRIM 3302 Advanced Criminology
   CRIM 3303 Advanced Criminal Justice
   CRIM 3310 Youth Crime and Justice
   CRIM 4311 Crime and Justice Policy
   CRIM 4322 Senior Research Seminar
   And

Distributive Justice Focus
   Choose one course from the following (3 semester credit hours):
      CRIM 3301 Theories of Justice
      ECON 4330 Law and Economics
      SOC 4302 Class, Status, and Power
   And
International or Comparative Focus
Choose one course from the following (3 semester credit hours):

- **CRIM 3319** Comparative Justice Systems
- **ECON 4360** International Trade
- **PSCI 3350** Comparative Politics
- **SOC 3336** Culture Regions

III. Elective Requirements: 15 semester credit hours

**Guided Electives: 15 semester credit hours**

**Biology (6 semester credit hours):**

- **BIOL 4380** Cell and Molecular Biology Laboratory
  - 3 semester credit hours approved upper-division BIOL elective

**Criminology Related Electives: 9 semester credit hours**

All students must complete at least 51 semester credit hours of upper-division courses to graduate.

1. Incoming freshmen must enroll and complete requirements of UNIV 1010 and the corresponding school-related freshman seminar course. Students, including transfer students, who complete their core curriculum at UT Dallas must take UNIV 2020.

2. Degree is 135-138 semester credit hours if students are required to take the school related freshman seminar course.

3. Curriculum Requirements can be fulfilled by other approved courses from accredited institutions of higher education. The courses listed are recommended as the most efficient way to satisfy both Core Curriculum and Major requirements at UT Dallas.

4. A required Major course that also fulfills a Core Curriculum requirement. Semester credit hours are counted in Core Curriculum.

5. Six semester credit hours of Calculus are counted under Mathematics Core and Component Area Option Core, and 2 semester credit hours of Calculus are counted as Major Preparatory Courses.

6. Students may substitute MATH 2413 and MATH 2414 by taking MATH 2417 and MATH 2419.

7. Indicates a prerequisite class to be completed before enrolling for upper-division classes.

8. Students who complete PHYS 2421 do not need to complete PHYS 2125.

9. To be taken upon completion of Criminology core courses.