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**: Bruce A. Jacobs, Robert W. Taylor, Lynne M. Vieraitis, John L. Worrall
- **Associate Professor**: Tomislav Kovandzic
- **Assistant Professor**: Michelle Harris
- **Clinical Professor**: Elmer Polk

NSM Faculty

- **Professors**: Rockford K. Draper, Juan E. González, Lawrence J. Reitzer, Stephen Spiro, Li Zhang, Michael Qiwei Zhang
- **Associate Professors**: John G. Burr, Jeff L. DeJong, Nikki Delk, Heng Du, Tae Hoon Kim, Kelli Palmer, Duane D. Winkler, Zhenyu Xuan
- **Assistant Professors**: Zachary Campbell, Nicole De Nisco, Jyoti Misra, Faruck Morcos
- **Professors Emeriti**: Hans Bremer, Lee A. Bulla, Donald M. Gray
- **Associate Professors Emeriti**: Gail A. M. Breen, Dennis L. Miller
- **Clinical Professor**: David Murchison
- **Research Assistant Professors**: Lan Guo, Li Liu
- **Professors of Instruction**: Scott A. Rippel, Uma Srikanth
- **Associate Professors of Instruction**: Mehmet Candas, Wen-Ju Lin, Elizabeth Pickett, Ilya Sapozhnikov, Michelle Wilson
- **Assistant Professors of Instruction**: Caitlin Braitsch, Ida Klang, Iti Mehta, Jing Pan, Eva Sadat, Subha Sarcar, Zhuoru Wu
- **Senior Lecturers**: Meenakshi Maitra, Ruben D. Ramirez, Wen-Ho Yu

I. Core Curriculum Requirements: 42 semester credit hours\(^3\)

- **Communication**: 6 semester credit hours
COMM 1311 Survey of Oral and Technology-based Communication
RHET 1302 Rhetoric

Or select any 6 semester credit hours from Communication Core courses (see advisor)

Mathematics: 3 semester credit hours

Choose one course from the following:
- MATH 1325 Applied Calculus \(^4\)
- MATH 2413 Differential Calculus \(^5, 6\)

Or select any 3 semester credit hours from Mathematics Core courses (see advisor)

Life and Physical Sciences: 6 semester credit hours

- CHEM 1311 General Chemistry \(^4\)
  or CHEM 1315 Honors Freshman Chemistry \(^4\)
- CHEM 1312 General Chemistry II \(^4\)
  or CHEM 1316 Honors Freshman Chemistry II \(^4\)

Or select any 6 semester credit hours from Life and Physical Sciences Core courses (see advisor)

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

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

Or select any 6 semester credit hours from Government/Political Science Core courses (see advisor)

Social and Behavioral Sciences: 3 semester credit hours

Choose one course from the following:
- CRIM 1301 Introduction to Criminal Justice \(^6, 7\)
- CRIM 1307 Introduction to Crime and Criminology \(^6, 7\)
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
ECON 2302 Principles of Microeconomics

Or select any 6 semester credit hours from Component Area Option courses (see advisor)

II. Major Requirements: 77-80 semester credit hours

Biology Major Preparatory Courses: 18-21 semester credit hours beyond Core Curriculum

CHEM 1111 General Chemistry Laboratory I
or CHEM 1115 Honors Freshman Chemistry Laboratory I

CHEM 1112 General Chemistry Laboratory II
or CHEM 1116 Honors Freshman Chemistry Laboratory II

CHEM 1311 General Chemistry I
or CHEM 1315 Honors Freshman Chemistry I

CHEM 1312 General Chemistry II
or CHEM 1316 Honors Freshman Chemistry II

CHEM 2123 Introductory Organic Chemistry Laboratory I

CHEM 2125 Introductory Organic Chemistry Laboratory II

CHEM 2323 Introductory Organic Chemistry I

CHEM 2325 Introductory Organic Chemistry II

MATH 2413 Differential Calculus and MATH 2414 Integral Calculus
or MATH 1325 Applied Calculus I

and STAT 2332 Introductory Statistics for Life Sciences
or EPPS 2302 Methods of Quantitative Analysis in the Social and Policy Sciences

PHYS 2325 Mechanics and PHYS 2125 Physics Laboratory I
or PHYS 2421 Honors Physics I - Mechanics and Heat
or **PHYS 1301** College Physics I and **PHYS 2125** Physics Laboratory I

**PHYS 2326** Electromagnetism and Waves and **PHYS 2126** Physics Laboratory II

or **PHYS 2422** Honors Physics II - Electromagnetism and Waves and **PHYS 2126** Physics Laboratory II

or **PHYS 1302** College Physics II and **PHYS 2126** Physics Laboratory II

### Biology Major Core Courses: 32 semester credit hours

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td><strong>BIOL 2111</strong></td>
<td>Introduction to Modern Biology Workshop I</td>
<td>7</td>
</tr>
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<td><strong>BIOL 2112</strong></td>
<td>Introduction to Modern Biology Workshop II</td>
<td>7</td>
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<tr>
<td><strong>BIOL 2281</strong></td>
<td>Introductory Biology Laboratory</td>
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<td><strong>BIOL 2311</strong></td>
<td>Introduction to Modern Biology I</td>
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<tr>
<td><strong>BIOL 2312</strong></td>
<td>Introduction to Modern Biology II</td>
<td>7</td>
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<tr>
<td><strong>BIOL 3101</strong></td>
<td>Classical and Molecular Genetics Workshop</td>
<td>2</td>
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<tr>
<td><strong>BIOL 3102</strong></td>
<td>Eukaryotic Molecular and Cell Biology Workshop</td>
<td>2</td>
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<tr>
<td><strong>BIOL 3161</strong></td>
<td>Biochemistry Workshop I</td>
<td>2</td>
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<tr>
<td><strong>BIOL 3162</strong></td>
<td>Biochemistry Workshop II</td>
<td>2</td>
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<tr>
<td><strong>BIOL 3301</strong></td>
<td>Classical and Molecular Genetics</td>
<td>2</td>
</tr>
<tr>
<td><strong>BIOL 3302</strong></td>
<td>Eukaryotic Molecular and Cell Biology</td>
<td>2</td>
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<td><strong>BIOL 3318</strong></td>
<td>Forensic Biology</td>
<td>2</td>
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<tr>
<td><strong>BIOL 3361</strong></td>
<td>Biochemistry I</td>
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<tr>
<td><strong>BIOL 3362</strong></td>
<td>Biochemistry II</td>
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<tr>
<td>or <strong>BIOL 3335</strong></td>
<td>Microbial Physiology</td>
<td>2</td>
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<tr>
<td><strong>BIOL 3380</strong></td>
<td>Biochemistry Laboratory</td>
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### Criminology Major Preparatory Courses: 3 semester credit hours beyond Core Curriculum

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td><strong>CRIM 1301</strong></td>
<td>Introduction to Criminal Justice</td>
<td>2</td>
</tr>
<tr>
<td><strong>CRIM 1307</strong></td>
<td>Introduction to Crime and Criminology</td>
<td>2</td>
</tr>
<tr>
<td><strong>ECON 2301</strong></td>
<td>Principles of Macroeconomics</td>
<td>2</td>
</tr>
<tr>
<td>or <strong>ECON 2302</strong></td>
<td>Principles of Microeconomics</td>
<td>2</td>
</tr>
</tbody>
</table>

### Criminology Core Courses: 24 semester credit hours

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>CRIM 3300</strong></td>
<td>Crime and Civil Liberties</td>
<td>2</td>
</tr>
</tbody>
</table>
**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

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.

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