School of Natural Sciences and Mathematics

Biology and Criminology (Double Major) (BA)

Bachelor of Arts in Biology and Criminology (Double Major)

**Degree Requirements** *(134-138 semester credit hours)*\(^1, 2*

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, Ernest M. Hannig, Tae Hoon Kim, Dennis L. Miller, Kelli Palmer, Zhenyu Xuan  
**Assistant Professors:** Nikki Delk, Heng Du, Jung-whan (Jay) Kim, Faruck Morcos, Duane D. Winkler, Hyuntae Yoo

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  
**Clinical Assistant Professor:** Timothy M. Bray  
**Senior Lecturer:** Galia Cohen

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

**Mathematics:** 3 semester credit hours

Choose one course from the following:

- **MATH 1325** Applied Calculus \(^4\)  
- **MATH 2413** Differential Calculus \(^4, 5, 6\)

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\(^1\)https://catalog.utdallas.edu/2018/undergraduate/programs/nsm/biology-criminology
Life and Physical Sciences: 6 semester credit hours

**CHEM 1311** General Chemistry I

or **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
II. Major Requirements: 77-81 semester credit hours

Biology Major Preparatory Courses: 18-22 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** Honor 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
  - or **CHEM 2125** Introductory Organic Chemistry Laboratory II
- **CHEM 2323** Introductory Organic Chemistry I
  - or **CHEM 2325** Introductory Organic Chemistry II
- **MATH 2413** Differential Calculus and **MATH 2414** Integral Calculus
  - or **MATH 1325** Applied Calculus I and either **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
- **PHYS 2325** Mechanics and **PHYS 2125** Physics Laboratory I
  - or **PHYS 2421** Honors Physics I - Mechanics and Heat 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

- **BIOL 2111** Introduction to Modern Biology Workshop I
- **BIOL 2112** Introduction to Modern Biology Workshop II
- **BIOL 2281** Introductory Biology Laboratory
BIOL 2311  Introduction to Modern Biology I
BIOL 2312  Introduction to Modern Biology II
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 135-139 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. To be taken upon completion of Criminology core courses.