School of Natural Sciences and Mathematics

Biology and Criminology (Double Major) (BA)

Bachelor of Arts in Biology and Criminology (Double Major)

Degree Requirements (134-139 semester credit hours)\(^1\)

NSM Faculty

**Professors:** Bruce A. Jacobs, Alex R. Piquero, Nicole Leeper Piquero, John L. Worrall

**Professors Emeritus:** Hans Bremer, Donald M. Gray, Claud S. Rupert

**Associate Professors:** Denise Paquette Boots, Tomislav Kovandzic, Lynne M. Vieraitis

**Assistant Professors:** Nikki Delk, Heng Du, Jung-whan (Jay) Kim, Faruck Morcos, Kelli Palmer, Duane D. Winkler, Zhenyu Xuan, Hyuntae Yoo

**Research Assistant Professors:** Monique Duncan, Lan Guo

**Senior Lecturers:** Irina Borovkov, Mehmet Candas, Vincent P. Cirillo, Brenna Hill, Wen-Ju Lin, Robert C. Marsh, David Murchison, Jing Pan, Elizabeth Pickett, Ruben D. Ramirez, Scott A. Rippel, Elizabeth L. Rugg, Ilya Sapozhnikov, Uma Srikanth, Michelle Wilson, Wen-Ho Yu

**Clinical Professor:** Elmer Polk

**Assistant Professor:** Nadine Connell

**Clinical Assistant Professor:** Timothy M. Bray

**Senior Lecturer:** Galia Cohen

EPPS Faculty

**Professors:** Bruce A. Jacobs, Alex R. Piquero, Nicole Leeper Piquero, John L. Worrall

**Associate Professors:** Denise Paquette Boots, Tomislav Kovandzic, Lynne M. Vieraitis

**Clinical Professor:** Elmer Polk

**Assistant Professors:** Nadine Connell, Jonathan Maskaly, Andrew Wheeler

**Clinical Assistant Professor:** Timothy M. Bray

**Senior Lecturer:** Galia Cohen

I. Core Curriculum Requirements: 42 semester credit hours\(^2\)
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 I\(^3\)
MATH 2413 Differential Calculus\(^3, 4, 5\)

Life and Physical Sciences: 6 semester credit hours

CHEM 1311 General Chemistry I\(^3\)
CHEM 1312 General Chemistry II\(^3\)

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\(^3, 6\)
CRIM 1307 Introduction to Crime and Criminology\(^3, 6\)
ECON 2301 Principles of Macroeconomics\(^3\)
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\(^3\), \(^4\), \(^5\)
- or **STAT 2332** Introductory Statistics for Life Sciences\(^3\)
- or **EPPS 2302** Methods of Quantitative Analysis in the Social and Policy Sciences\(^3\)
- or **EPPS 2303** Descriptive and Inferential Statistics for the Social and Policy Sciences\(^3\)
- **ECON 2302** Principles of Microeconomics\(^3\)

**II. Major Requirements: 77-82 semester credit hours**

**Biology Major Preparatory Courses: 18-20 semester credit hours beyond Core Curriculum**

- **CHEM 1111** General Chemistry Laboratory I
- **CHEM 1112** General Chemistry Laboratory II
- **CHEM 1311** General Chemistry I\(^3\)
- **CHEM 1312** General Chemistry II\(^3\)
- **CHEM 2123** Introductory Organic Chemistry Laboratory I\(^6\)
- **CHEM 2125** Introductory Organic Chemistry Laboratory II\(^6\)
- **CHEM 2323** Introductory Organic Chemistry I\(^6\)
- **CHEM 2325** Introductory Organic Chemistry II\(^6\)
- **MATH 2413** Differential Calculus and **MATH 2414** Integral Calculus\(^3\), \(^4\), \(^5\)
  - 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\(^3\)
- **PHYS 2325** Mechanics and **PHYS 2125** Physics Laboratory I
  - or **PHYS 1301** College Physics I and **PHYS 2125** Physics Laboratory II
- **PHYS 2326** Electromagnetism and Waves and **PHYS 2126** Physics Laboratory II
  - or **PHYS 1302** College Physics II and **PHYS 2126** Physics Laboratory II
- **NATS 1101** Natural Sciences and Mathematics Freshman Seminar or **EPPS 1110** Freshman Seminar\(^7\)
- **UNIV 1010** Freshman Seminar

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

- **BIOL 2111** Introduction to Modern Biology Workshop I\(^6\)
- **BIOL 2112** Introduction to Modern Biology Workshop II\(^6\)
**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: 3-6 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

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. 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.

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

4. 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.

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

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

7. The double major of Biology and Criminology's total degree semester credit hours will be 135-140 if incoming freshmen take NATS 1101 or EPPS 1110.

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