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:** 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, Claud S. Rupert

**Associate Professors:** Gail A. M. Breen, John G. Burr, Jeff L. DeJong, Ernest M. Hannig, Tae Hoon Kim, Dennis L. Miller

**Assistant Professors:** Nikki Delk, Heng Du, Jung-whan (Jay) Kim, 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

EPPS Faculty

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

**Associate Professors:** Denise Paquette Boots, Tomislav Kovandzic, Robert G. Morris II, Lynne M. Vieraitis

**Clinical Professor:** Elmer Polk

**Assistant Professor:** Nadine Connell

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

**Senior Lecturer:** Galia Cohen
I. Core Curriculum Requirements: 42 semester credit hours

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
MATH 2413 Differential Calculus

Life and Physical Sciences: 6 semester credit hours

CHEM 1311 General Chemistry I
CHEM 1312 General 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: 77-82 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
CHEM 1312  General 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 either 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 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

**UNIV 1010** Freshman Seminar

**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: 3-6 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.

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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.

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