

CURRICULUM PROPOSAL

APPROVAL PAGE

Proposal Title: Modification to BS Forensic Science

College: Science

Department: Dean

DEPARTMENT CHAIR- Director, Dr. Nancy Marcus

I have read the enclosed proposal and approve this proposal on behalf of the department.

N. Marcus

9-7-21

Signature

Date

COLLEGE CURRICULUM COMMITTEE CHAIR – Director, Dr. Nancy Marcus

I have read the enclosed documents and approve the proposal on behalf of the college curriculum committee.

N. Marcus

9-7-21

Signature

Date

COLLEGE DEAN – Dr. Robert Kirken

I have read the enclosed documents and approve the proposal on behalf of the college. I certify that the necessary funds will be allocated by the college in support of this proposal.

Robert Kirken

9/7/21

Signature

Date

UNDERGRADUATE CURRICULUM CHANGE MEMO

Date: 9-8-2021

From: Dr. Nancy Marcus

Through: Director, Dr. Nancy Marcus

Through: Dr. Robert Kirken



To: Dr. Art Duval

Proposal Title: Modification to the BS Forensic Science both
Concentrations

Explain the nature of the change and the rationale.

This proposal proposes to add some leeway to students by adding one course to the inventory of courses in the BS in Forensic Science.

Currently, both concentrations in the forensic science degree requires CRIJ 1301. Since an increasing number of forensic science majors also complete the minor in Criminal Justice and the Department of Criminal Justice does not allow a course to be counted twice for the major and the minor, we would like to amend this requirement to CRIJ 1301 or CRIJ 4315 (Homicide) with a note in the degree plan reminding students that if they plan to minor in criminal justice, they need to take CRIJ 4315.

The addition of CRIJ 4315 was suggested by the Chair of the Department of Criminal Justice, Dr. Leanne F. Alarid.

BS in Forensic Science with concentration in Forensic Biology

Designated Core

**Although the UTEP choice is larger, these choices satisfy the requirements of both the core and the major

All courses listed below are required:

Social and Behavioral Sciences

PSYC 1301	Introduction to Psychology
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Language, Philosophy and Culture

PHIL 2306	Ethics
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Mathematics

Required:

MATH 1411	Calculus I
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Life and Physical Sciences

Select one of the following sequences:

PHYS 1403 & PHYS 1404	General Physics I and General Physics II
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Or

PHYS 2420 & PHYS 2421	Introductory Mechanics and Introductory Electromagnetism
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University Core Curriculum	42
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Forensic Science Major ^c

Required:

BIOL 1107	Topics in Study of Life I	1
BIOL 1108	Organismal Biology Laboratory	1
BIOL 1305	General Biology	3
BIOL 1306	Organismal Biology	3

CHEM 1105	Laboratory for CHEM 1305	1
CHEM 1106	Laboratory for CHEM 1306	1
CHEM 1305	General Chemistry	3
CHEM 1306	General Chemistry	3
CHEM 2124	Lab for Organic Chemistry 2324	1
CHEM 2125	Lab for Organic Chemistry 2325	1
CHEM 2324	Organic Chemistry	3
CHEM 2325	Organic Chemistry	3
CRIJ 1301	Intro to Criminal Justice I	3
OR		
CRIJ 4315	Homicide	3
STAT 2480	Elementary Statistical Methods	4
Specialized Science Courses ^c		
Select twelve hours from the following:		12
BIOL 3115	Molecular Cell Biol Laboratory	
BIOL 3314	Molecular Cell Biology	
BIOL 3320	Genetics	
BIOL 3351	Toxicology	
BIOL 4395	Topics in Biology	
CHEM 3310	Analytical Chemistry	
CHEM 3330	Biochem I:Struc & Function	
CHEM 3332	Biochem II: Metabol & Bioenerg	
CHEM 3351	Physical Chemistry I	
CHEM 3352	Physical Chemistry II	
CHEM 4211	Instrumental Meths Analyt Chem	
CHEM 4212	Lab for Chemistry 4211	
CHEM 4365	Inorganic Chemistry	

MICR 2141	Gen Microbiology Laboratory	
MICR 2340	General Microbiology	
Additional Coursework ^c		
Select twelve hours from the following:		12
BIOL 3351	Toxicology	
BIOL 3357	Forensic DNA Analysis	
BIOL 3375	Forensic Pathobiology	
FORS 3370	Forensic Science I	
FORS 3371	Forensic Biology	
Or any forensic biology/chemistry course with a lab component. Forensic science internships or independent studies/ research may be used to fulfill up to six hours of this requirement. ^c		
Select one of the following:		3
BIOL 3351	Toxicology	
BIOL 3357	Forensic DNA Analysis	
BIOL 3375	Forensic Pathobiology	
FORS 3370	Forensic Science I	
FORS 3371	Forensic Biology	
Forensic Biology Track ^c		
Concentration		
Select twenty additional hours of upper-division Biology, Microbiology and/or CBCH courses from the following:		20
BIOL 3115	Molecular Cell Biol Laboratory	
BIOL 3117	Ecology Laboratory	
BIOL 3192	Professional Development Sem.	

BIOL 3314	Molecular Cell Biology
BIOL 3316	Ecology
BIOL 3320	Genetics
BIOL 3321	Evolution
BIOL 3342	Plants and People
BIOL 3351	Toxicology
BIOL 3357	Forensic DNA Analysis
BIOL 3375	Forensic Pathobiology
BIOL 4195	Advanced Methods in Biology
BIOL 4198	Special Problems
BIOL 4225	Field Biology
BIOL 4298	Special Problems
BIOL 4319	G Protein-Coupled Recept Biol
BIOL 4320	Endocrinology
BIOL 4321	Developmental Biology
BIOL 4324	Genetic, Env & Evol - Anim Beh
BIOL 4325	Field Biology
BIOL 4327	Animal Ecology
BIOL 4330	Cancer Biology
BIOL 4370	History/Philosophy-Biology
BIOL 4388	Mammalian Physiology
BIOL 4390	Biological Practicum

BIOL 4395	Topics in Biology
BIOL 4398	Special Problems
CBCH 3316	Membrane Biology
CBCH 4310	Techniques in Mol Biochem
CBCH 4320	Adv Topics in Mil Biochem
CBCH 4414	Cellular Biochemistry
MICR 3144	Pathogenic Microbiology Lab
MICR 3146	Microbial Physiology Lab
MICR 3343	Pathogenic Microbiology
MICR 3345	Microbial Physiology
MICR 4154	Immunology Laboratory
MICR 4329	Epidemiology
MICR 4351	General Virology
MICR 4353	Immunology
MICR 4355	Medical Mycology

Upper Division Requirement ^c

A total of thirty-seven hours of upper division coursework is required for all Bachelor of Science degrees.

C. Grades on all Courses must be C or better

Total Hours

120

BS in Forensic Science with concentration in Forensic Chemistry

Code	Title	Hours
Designated Core		
**Although the UTEP choice is larger, these choices satisfy the requirements of both the core and the major. All courses listed within this degree area require a grade of C or better for successful completion.		
All courses listed below are required:		
Language, Philosophy and Culture		
PHIL 2306	Ethics	
Social and Behavioral Sciences		
PSYC 1301	Introduction to Psychology	
Life and Physical Sciences		
PHYS 2420 & PHYS 2421	Introductory Mechanics and Introductory Electromagnetism	
Mathematics		
MATH 1411	Calculus I	
University Core Curriculum		42
Forensic Science Major ^c		
Required:		8-10
CHEM 2124 & CHEM 2324	Lab for Organic Chemistry 2324 and Organic Chemistry	
AND		
CHEM 2125 & CHEM 2325	Lab for Organic Chemistry 2325 and Organic Chemistry	
OR		

Code	Title	Hours
CHEM 2221 & CHEM 2321	Organic Chemistry I Lab and Organic Chemistry I	
AND		
CHEM 2222 & CHEM 2322	Organic Chemistry II Lab and Organic Chemistry II	
Required:		
BIOL 1107	Topics in Study of Life I	1
BIOL 1108	Organismal Biology Laboratory	1
BIOL 1305	General Biology	3
BIOL 1306	Organismal Biology	3
CHEM 1105	Laboratory for CHEM 1305	1
CHEM 1106	Laboratory for CHEM 1306	1
CHEM 1305	General Chemistry	3
CHEM 1306	General Chemistry	3
CRIJ 1301	Intro to Criminal Justice I	3
OR		
CRIJ 4315	Homicide	3
STAT 2480	Elementary Statistical Methods	4
Specialized Science Courses ^c		
Select twelve hours from the following:		12

Code	Title	Hours
BIOL 3314 & BIOL 3115	Molecular Cell Biology and Molecular Cell Biol Laboratory	
BIOL 3320	Genetics	
BIOL 3351	Toxicology	
BIOL 4395	Topics in Biology	
CHEM 3110	Lab for Chemistry 3310	
CHEM 3151	Lab for Chemistry 3351	
CHEM 3310	Analytical Chemistry	
CHEM 3152	Lab for Chemistry 3352	
CHEM 3330	Biochem I:Struc & Function	
CHEM 3332	Biochem II: Metabol & Bioenerg	
CHEM 3351	Physical Chemistry I	
CHEM 3352	Physical Chemistry II	
CHEM 4211 & CHEM 4212	Instrumental Meths Analyt Chem and Lab for Chemistry 4211	
CHEM 4365	Inorganic Chemistry	
MICR 2141 & MICR 2340	Gen Microbiology Laboratory and General Microbiology	
Additional Coursework ^c		

Code	Title	Hours
Select twelve hours from the following:		12
BIOL 3351	Toxicology	
BIOL 3357	Forensic DNA Analysis	
BIOL 3375	Forensic Pathobiology	
FORS 3370	Forensic Science I	
FORS 3371	Forensic Biology	
or any forensic biology/ chemistry course with a lab component, forensic science internships or independent studies/ research may be used to fulfill this requirement.		
Forensic Chemistry Track ^c		
Concentration		
Select twenty additional hours of upper-division Chemistry:		20
CHEM 3110	Lab for Chemistry 3310	
CHEM 3131	Lab for Chemistry	
CHEM 3151	Lab for Chemistry 3351	
CHEM 3152	Lab for Chemistry 3352	
CHEM 3301	Molecular Modeling & Chem Info	
CHEM 3310	Analytical Chemistry	
CHEM 3330	Biochem I:Struc & Function	
CHEM 3332	Biochem II: Metabol & Bioenerg	

Code	Title	Hours
CHEM 3351	Physical Chemistry I	
CHEM 3352	Physical Chemistry II	
CHEM 4134	Structural Biochemistry Lab	
CHEM 4165	Inorganic Chemistry Lab	
CHEM 4176	Introduction to Research	
CHEM 4211	Instrumental Meths Analyt Chem	
CHEM 4212	Lab for Chemistry 4211	
CHEM 4328	Advanced Topics Organic Chem	
CHEM 4334	Structural Biochemistry	
CHEM 4335	Biophysical Chemistry	
CHEM 4362	Structure of Matter	
CHEM 4365	Inorganic Chemistry	
CHEM 4376	Introduction to Research	

Upper Division Requirement ^c

A total of thirty-seven hours of upper division coursework is required for all Bachelor of Science degrees.

C. Grades on all Courses must be C or better