



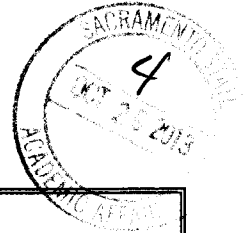
SACRAMENTO STATE

Approved by the Faculty Senate - Feb 13, 2014

Attachment: FS 13/14-67

Program Proposal Form B

BIOB13-14.002



Academic Group (College): Natural Sciences and Mathematics	Date of Submission to College Dean:
Academic Organization (Department): Biological Sciences	Requested Effective: Fall <u>X</u> , Spring <u> </u> , 2014 <u> </u> .
Department Chair: Jennifer Lundmark	Contact if not Department Chair: Ruth Ballard
Title of the Program (Please be specific; indicate minor, undergraduate or graduate degree, etc.): B. S. in Biological Sciences, Concentration in Forensic Biology	
Type of Program Proposal: <input checked="" type="checkbox"/> <u>X</u> Modification in Existing Program: <input checked="" type="checkbox"/> <u>X</u> Substantive Change <input type="checkbox"/> Non-Substantive Change <input type="checkbox"/> Deletion of Existing Program <input type="checkbox"/> New Programs <input type="checkbox"/> Initiation (Projection) of New Program on to Master Plan <input type="checkbox"/> New Degree Programs <input type="checkbox"/> Regular Process <input type="checkbox"/> Fast Track Process <input type="checkbox"/> Pilot Process <input type="checkbox"/> New Minor, Concentration, Option, Specialization, Emphasis <input type="checkbox"/> New Certificate Program	
PLEASE NOTE: Form B is to be used only as a Cover Form. Additional information is requested for each of the above as noted in the corresponding procedure in the Policies and Procedures for Initiation, Modification, Review and Approval of Courses and Academic Programs found at: http://www.csus.edu/acaf/academic_resources/policies_and_procedures/Course_and_Program_Proposals/ApprovalProcess.html	
Briefly describe the program proposal (new or change) and provide a justification: To comply with the mandate for a maximum of 120 units in the major, the Forensic Biology concentration (a specialized track within the Biological Sciences major) is seeking to replace CRJ 121 (Structure and Function of American Courts) with <u>one</u> of the courses listed below; this change will allow students to "double count" this course for the major and upper division GE (Area D2). These courses have been identified in consultation with the Chair of Criminal Justice, Mary Maguire, who agrees that they are appropriate substitutions for CRJ 121. CRJ 112 Gangs and Threat Groups in America CRJ 114 Sexual Offenses and Offenders CRJ 118 Drug Abuse and Criminal Behavior	
Approvals: Department Chair: <u></u> Date: <u>10/23/13</u> College Dean: <u></u> Date: <u>10/29/13</u> University Committee: <u></u> Date: <u>12-16-13</u> Assoc Dean for Undergraduate Studies or Dean for Graduate Studies: <u></u> Date: <u>11/5/14</u>	

Proposed Change to Forensic Biology Concentration:

New Program	Old Program
<p>Forensic Biology Concentration (38 units)</p> <p>The curriculum in Forensic Biology is designed to prepare students for careers as criminalists specializing in the analysis and interpretation of serological and DNA evidence. This curriculum meets the educational requirements for entry level career positions with city, county, and federal agencies. Students selecting this concentration are urged to pursue internship opportunities (<u>BIO 195</u>), such as those available through the Sacramento County Coroner's Office, and/or directed research (<u>BIO 199A</u> or <u>BIO 199B</u>) with a faculty member in Biological Sciences or Chemistry who utilizes molecular biology techniques and instrumentation. Students completing the requirements for a concentration in Forensic Biology also fulfill the requirements for a minor in Chemistry.</p> <p>A. Required courses (32 units)</p> <p>(3) BIO 121 Molecular Cell Biology (<u>BIO 1</u>, <u>BIO 2</u>)</p> <p>(3) BIO 150 Forensic Biology (BIO 1, BIO 2, and BIO 184)</p> <p>(2) BIO 151 Advanced Laboratory Techniques in Forensic Biology (BIO 150 or instructor permission)</p> <p>(4) BIO 180 Advanced Molecular Biology (BIO 121 and BIO 184)</p> <p>(1) Chem 20L Introductory Organic Chemistry Laboratory (Chem 20, may be taken concurrently)</p> <p>(4) Chem 31 Quantitative Analysis (Chem 1B)</p> <p>(3) Chem 161 General Biochemistry (Chem 20 or Chem 124; one year of biological science is recommended)</p> <p>(3) Chem 162 General Biochemistry Laboratory (Chem 31, Chem 160A or Chem 161, either may be taken concurrently; Engl 20 or an equivalent second semester composition course)</p>	<p>Forensic Biology Concentration (38 units)</p> <p>The curriculum in Forensic Biology is designed to prepare students for careers as criminalist specializing in the analysis and interpretation of serological and DNA evidence. This curriculum meets the educational requirements for entry level career positions with city, county, and federal agencies. Students selecting this concentration are urged to pursue internship opportunities (<u>BIO 195</u>), such as those available through the Sacramento County Coroner's Office, and/or directed research (<u>BIO 199A</u> or <u>BIO 199B</u>) with a faculty member in Biological Sciences or Chemistry who utilizes molecular biology techniques and instrumentation. Students completing the requirements for a concentration in Forensic Biology also fulfill the requirements for a minor in Chemistry.</p> <p>A. Required courses (32 units)</p> <p>(3) BIO 121 Molecular Cell Biology (<u>BIO 1</u>, <u>BIO 2</u>)</p> <p>(3) BIO 150 Forensic Biology (BIO 1, BIO 2, and BIO 184)</p> <p>(2) BIO 151 Advanced Laboratory Techniques in Forensic Biology (BIO 150 or instructor permission)</p> <p>(4) BIO 180 Advanced Molecular Biology (BIO 121 and BIO 184)</p> <p>(1) Chem 20L Introductory Organic Chemistry Laboratory (Chem 20, may be taken concurrently)</p> <p>(4) Chem 31 Quantitative Analysis (Chem 1B)</p> <p>(3) Chem 161 General Biochemistry (Chem 20 or Chem 124; one year of biological science is recommended)</p> <p>(3) Chem 162 General Biochemistry Laboratory (Chem 31, Chem 160A or Chem 161, either may be taken concurrently; Engl 20 or an equivalent second semester composition course)</p>

(3) CRJ 4 General Investigative Techniques

~~(3) CRJ 121 The Structure and Function of the American Courts (restricted to declared majors or minors or department chair permission)~~

One of the following courses:

(3) CRJ 112 Gangs and Threat Groups

(3) CRJ 114 Sexual Offenses and Offenders

(3) CRJ 118 Drug Abuse and Criminal Behavior

(3) CRJ 154 Introduction to Physical Evidence (CRJ 102; restricted to declared majors or chair permission)

B. Elective Courses (6 units)

- 3 units from Elective List 1 (Structure and Function electives)
- 3 units from Elective List 2 (Ecology, Evolution and Biodiversity electives)

Notes:

- Chem 162 can be included in the 36 upper division unit requirement for this concentration
- Chem 160A and 160B may be taken in lieu of Chem 161. Only three units of the package may be counted toward the upper division requirement.
- Students with a declared concentration in Forensic Biology do not need to take CRJ 1, CRJ 2, or CRJ 102 as prerequisites for the CRJ courses required in this concentration

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Subject: RE: the whole thing
Date: Tuesday, October 8, 2013 2:46:17 PM PT
From: Maguire, Mary H
To: Ballard, Ruth E
CC: Lundmark, Jennifer A, Meyer, Sheree L

Hi Ruth,

Absolutely, this substitution makes sense to us.

From: Ballard, Ruth E
Sent: Tuesday, October 08, 2013 2:38 PM
To: Maguire, Mary H
Cc: Lundmark, Jennifer A; Meyer, Sheree L
Subject: FW: the whole thing

Hi Mary,

Could you please look at the attached "Form B" and weigh in? Jennifer Lundmark (Bio Chair) would like confirmation from you before we submit the change.

Thanks,

Ruth

Ruth E Ballard PhD
Professor
California State University, Sacramento
6000 J Street
Sacramento CA 95819-6077
916-278-6244
ballardr@csus.edu

From: Lundmark, Jennifer A
Sent: Tuesday, October 8, 2013 2:28 PM
To: Ballard, Ruth E
Subject: the whole thing

Hi Ruth,
Okay, here's the entire form.

You will need written support from the CrJ Chair for these changes (I assume an email exchange will suffice).

Jen