

FLORIDA ATLANTIC UNIVERSITY™

UUPC APPROVAL 2/26/16
 UFS APPROVAL _____
 SCNS SUBMITTAL _____
 CONFIRMED _____
 BANNER POSTED _____
 CATALOG _____

Undergraduate Programs—NEW COURSE PROPOSAL¹

DEPARTMENT CHEMISTRY AND BIOCHEMISTRY

COLLEGE OF SCIENCE

RECOMMENDED COURSE IDENTIFICATION (TO OBTAIN A COURSE NUMBER, CONTACT NMALDONADO@FAU.EDU)

EFFECTIVE DATE

PREFIX CHM COURSE NUMBER 4350 LAB CODE (L or C) _____

(first term course will be offered)

COMPLETE COURSE TITLE: **STRUCTURAL BIOCHEMISTRY**

SUMMER 2016

CREDITS²

3

TEXTBOOK INFORMATION

1. *Introduction to protein structure*; C. Branden & J. Tooze. ISBN-10: 0815323050.
2. *Introduction to Proteins: Structure, Function, and Motion*; A. Kessel & N. Ben-Tal. ISBN-10: 1439810710.
3. *Lehninger Principles of Biochemistry*; D. L. Nelson & M.M. Cox. ISBN-10: 0716743396.

GRADING (SELECT ONLY ONE GRADING OPTION): REGULAR PASS/FAIL _____ SATISFACTORY/UNSATISFACTORY _____

COURSE DESCRIPTION, NO MORE THAN THREE LINES:

THIS COURSE PLACES EMPHASIS ON COMPUTER-BASED APPROACH TO TEACH STRUCTURAL BIOCHEMISTRY. IT USES HANDS-ON EXPERIENCE TO DEVELOP ESSENTIAL SKILLS FOR UNDERSTANDING OF RELATIONSHIPS BETWEEN STRUCTURE AND FUNCTION OF BIOMOLECULES. CLASSES WILL BE HELD IN COMPUTER LABS. STATE-OF-THE-ART SOFTWARE FOR VISUALIZATION, MANIPULATION AND SIMULATION OF VARIOUS BIOMOLECULES IS USED THROUGHOUT.

PREREQUISITES W/MINIMUM GRADE*

CHM2210, MINIMUM GRADE C

COREQUISITES*

REGISTRATION CONTROLS (MAJOR, COLLEGE, LEVEL)*

**DEFAULT MINIMUM PASSING GRADE IS D-. PREREQUISITES, COREQUISITES AND REGISTRATION CONTROLS WILL BE ENFORCED FOR ALL COURSE*

MINIMUM QUALIFICATIONS NEEDED TO TEACH THIS COURSE:

PH.D. IN CHEMISTRY OR BIOCHEMISTRY

WAC/GORDON RULE COURSE³

YES _____ NO

WAC/Gordon Rule criteria must be indicated in syllabus and approval attached to proposal.
 Guidelines: www.fau.edu/WAC

GENERAL EDUCATION REQUIREMENT (MARK X IN FRONT OF SELECTION)⁴

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|--|---|
| <input type="checkbox"/> Written Communication | <input type="checkbox"/> Society/Human Behavior |
| <input type="checkbox"/> Math/Quantitative Reasoning | <input type="checkbox"/> Global Citizenship |
| <input type="checkbox"/> Science/Natural World | <input type="checkbox"/> Humanities |

General Education criteria must be indicated in the syllabus and approval attached to proposal. Guidelines: www.fau.edu/ugstudies/GeneralEdCourseApprovalRequests.php

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|---|---|
| <p>Faculty contact, email and complete phone number:</p> <p>Maciej Stawikowski Assistant Scientist Department of Chemistry and Biochemistry Florida Atlantic University 777 Glades Road, Boca Raton, FL 33431 PS-55 Bldg, Room PS 310 Email: mstawikowski@fau.edu Tel: +1-561-297-4871</p> | <p>Please consult and list departments that might be affected by the new course and attach comments.</p> <p>Department of Biological Sciences</p> |
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| <p>Approved by</p> <p>Department Chair: <u>J E Hly</u></p> <p>College Curriculum Chair: <u>J E Hly</u></p> <p>College Dean: <u>[Signature]</u></p> <p>UUPC Chair: <u>[Signature]</u></p> <p>Undergraduate Studies Dean: <u>[Signature]</u></p> <p>UFS President: _____</p> <p>Provost: _____</p> | <p>Date</p> <p><u>2-24-16</u></p> <p><u>2-24-16</u></p> <p><u>2/24/16</u></p> <p><u>2/24/16</u></p> <p><u>3/1/16</u></p> <p>_____</p> <p>_____</p> | <ol style="list-style-type: none"> 1. Syllabus must be attached; syllabus checklist recommended; see guidelines and checklist: www.fau.edu/academic/registrar/UUPCinfo 2. Review Provost Memorandum: Definition of a Credit Hour www.fau.edu/provost/files/Definition Credit Hour Memo 2012.pdf 3. WAC approval (attach if applicable) 4. Gen. Ed. approval (attach if applicable) 5. Consent of affected departments (attach if applicable) |
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Email this form and syllabus to mjenning@fau.edu seven business days before the UUPC meeting.