Current Chair: Brian Morgan

Request for Undergraduate Course Addition

1. Prepare one paper copy and obtain signatures from the Department Chair/Head, Librarian, and College Dean. 2. Submit the form to your College Curriculum Committee. 3. After attaining the signature of the College Curriculum Chair, send the paper copy to Bernice Bullock in the Faculty Senate office. 4. Send an identical (sans signatures) ELECTROINIC COPY and all supporting documentation in PDF format by email to bullock@marshall.edu.

College: science Department/Division: chemistry Alpha Designator/Number: CHM 478 Graded: ☉ CR/NC: ○

Contact Person: Mike Norton/David Neff Phone: 304 696-3569

NEW COURSE DATA:

New Course Title: Applied Microscopy in Research

Alpha Designator/Number: CHM478

Title Abbreviation: appl. microscopy in research
(Limit of 30 characters and spaces.)

Course Description (Limit of 30 words): A combined lecture/lab /self motivated research course that results in a microscopy based project to be presented by each student in a public forum (may augment capstone).

Co-requisite(s): _____ First Term to be Offered: spring 2010

Prerequisite(s): inst perm; 300 level in maj Credit Hours: 4

Course(s) being deleted in place of this addition *(must submit course deletion form)*: _____

CHECKLIST/REQUIREMENTS

1. After completing this two page form in its entirety, include a complete syllabus and route through the departments/committees below.
2. A complete syllabus can be from when this course was previously taught as a special topics course or by creating a new, intended syllabus to use with the course. The sample syllabus must at a minimum address the following areas:
   a. COURSE OBJECTIVES
   b. COURSE OUTLINE
   c. SAMPLE TEXT(S) WITH AUTHOR(S) AND PUBLICATION DATE
   d. INSTRUCTIONAL METHODS (Lecture, Lab, Internship, Practicum, etc...)
   e. EVALUATION METHODS (Unit/Chapter, Midterm, Final, Projects, etc...)
3. If this course will replace a course that is required by another department, please send a memo to the affected department and include it with this packet, as well as, the response received from the affected department.
4. If this course will be similar in title or content to another department's courses, please send a memo to the affected department and include it with this packet, as well as, the response received from the affected department.
5. Send a copy of this completed form to the Marshall University Catalog Editor.

SIGNATURES: (If disapproved at any level, do not sign. Return to previous signer.)

Department Chair/Division Head: _____	Date: _____
Registrar: _____	Date: _____
Librarian: _____	Date: _____
College Dean: _____	Date: _____
College Curriculum Chair: _____	Date: _____
University Curriculum Committee Chair: _____	Date: _____
Faculty Senate Chair: _____	Date: _____
VP Academic Affairs/VP Health Science _____	Date: _____

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Additional Information Required for Undergraduate Course Addition

College: Science Department/Division: Chemistry Alpha Designator/Number: CHM 478

Provide complete information regarding the new course addition for each topic listed below. Before routing this form, a complete syllabus also must be attached addressing the items listed on the first page of this form.

1. Identify by name the faculty in your department/division who may teach this course.

Mike Norton

2. If your department/division requires additional faculty, equipment, or specialized materials, attach an estimation of money and time required to secure these items.

please see #6

3. If this course will be required by a department/division other than your own, identify by name.

NA

4. If there are any agreements required to provide clinical experience, attach details and signed agreements.

NA

5. If library resources are deemed inadequate, attach a plan to overcome this. The plan must include the cost as stated by the Dean of Libraries.

adequate

6. EQUIPMENT/SUPPLIES NEEDED TO TEACH THIS COURSE (this does not refer to additional equipment/supplies that need to be purchased; simply what materials are needed in order to teach this course successfully.):

This is a research based course that requires extensive use of microscopes, including, scanning electron, atomic force and fluorescence light microscopes. This equipment is currently available and maintained by Dr. Norton and his staff in the M.U. MBIC (Molecular and Biological Imaging Center). Each student research project requires the use of consumable materials. The cost of these supplies can be partially offset via requiring a lab fee associated with the class. Experimental samples are also required and these are usually provided by the student's faculty advisor.

7. ADDITIONAL GRADUATE REQUIREMENTS IF LISTED AS AN UNDERGRADUATE OR GRADUATE COURSE (please also submit to Graduate Council course addition for 5xx graduate component):

NA

8. PROVIDE A COMPLETE BIBLIOGRAPHY INCLUDING ALL PUBLICATIONS RESEARCHED TO CREATE THIS COURSE AND WHAT PUBLICATIONS MAY BE BENEFICIAL TO STUDENTS TAKING THIS COURSE (separate page).