The University Of Toledo

NEW COURSE PROPOSAL

* denotes required fields

1. College*
   --Select a College--

2. Department*
   --Select a Department--

3. Contact Person*
   Cynthia M. Smas
   Phone: 383-4131

4. Proposed title*
   BPG Introduction to Methods in Biomedical Scie

5. Proposed effective term: Fall 2011

6. Planned enrollment per section: 6
   per term: 6

7. Is the course cross-listed with another academic unit?  
   Yes  ☐  No ☐

8. Is the course offered at more than one level?  
   Yes  ☐  No ☐

9. If yes to either question, please list additional Alpha/Numeric codes, and submit a separate New Course form or Course Modification form for the course(s) referenced below.

   Approval of other academic unit (signature)

Name and title

If course is to be offered at more than one level, attach an explanation of the different requirements that students must meet for each level. If the requirements are the same for each level, justification must be provided.

10. Credit hours*  Fixed  ☐  Variable ☐

11. Delivery Mode
    a. Activity Type*
       Lecture
    b. Minimum Credit Hours
       1
    c. Maximum Credit Hours
       1
    e. Weekly Contact Hours
       2

12. Terms offered:
    ☐ Fall  ☐ Spring  ☐ Summer

13. Years offered:
    ☐ Every Year  ☐ Alternate Years

14. Are students permitted to register for more than one section during a term?  ☐ No  ☐ Yes

15. May the course be repeated for credit?  ☐ No  ☐ Yes

16. Grading System*
    Undergraduate
    Normal Grading (A-F,PS,NC,PR, I)
    Passing Grade/No Credit (A-C, NC)
    Credit/No Credit
    Grade Only (A-F, PR, I)
    Audit only
    No Grade

    Graduate
    Normal Grading (A-F,PS,NC,PR, I)
    Grade Only (A-F)
    Satisfactory/Unsatisfactory (G only)
    Audit only
    No Grade

http://curriculumtracking.utoledo.edu/NewCourse.asp

6/29/2011
12. Prerequisites (must be taken before) a. b. c. 
Co-requisites (must be taken together) a. b. c. 

13. If course is to replace an existing course(s) will be deleted, and when should that deletion occur? 
Course to be removed from inventory a. 
Final Term to be offered b. (YYYYT, i.e., use 20064 for Fall 06) 

c. 
d. 

14. Catalog description* (30 words Maximum) 
Introduction to biomedical methods. Required for Bioinformatics, Proteomics and Genomics (BPG) MSBS (but not certificate) students. An abbreviated version of BMSP-638, BMSP-XXX runs for first 8 wks of fall semester.

15. Attach an electronic copy of a complete outline of the major topics covered. 
Syllabus 

Additional Attachment 1: 

Additional Attachment 2: 

16. Where does this course fit in the University/College/Department curriculum? (Be specific by course level, if applicable) 
Indicate prospective demand: 
Course is specifically designed for to meet curriculum content needs of MSBS students in the BPG program. MSBS students in this program cannot take the full 3 credit course number BMSP-638 due to time and credit numbers constraints. All BPG MSBS students will take the course, demand is estimated at 6 students per yearly fall term.

17. If the proposed course is similar to another course in the College or University, please describe the difference and provide a rationale for the duplication. (If this course duplicates material covered in another course within your department or college in another college, attach a letter of endorsement from that area’s dean and department chairperson indicating their support. Clarify the manner in which this course will differ).

Course is specifically designed for to meet curriculum content needs of MSBS students in the BPG program. MSBS students in this program cannot take the full 3 credit course number BMSP-638 due to time and credit numbers constraints. BPG MSBS students attend a subset of lectures during the first 8 wks of BMSP-638/838. These lectures cover those methods that are particularly pertinent to the BPG program. BPG MSBS students attend lectures alongside graduate students enrolled in BMSP-638/838, a 3 credit course which runs for the full fall semester.

18. If the course is intended to meet a University Undergraduate Core requirement, complete the following and submit a course syllabus using the template.

Please explain how this course fulfills the general education guidelines (Guidelines are available in Faculty Senate Website).

I am using this box to clarify some points above, NOT IN RESPONSE TO GENERAL EDUCATION GUIDELINES.

For Q1: College is College of Medicine, department name is not applicable.
For Q6: The full course name is BPG Introduction to Methods in Biomedical Sciences.
For Q7 and Q8: Based on contact hours, actual credit hours is 1.25 and average weekly contact hours is 2.25, I could only list as "1" or "2" in boxes. This course only runs the first 8 wks of the fall semester.

Course Approval:

Department Curriculum Authority: [Signature]

Department Chairperson: [Signature]

College Curriculum Authority: [Signature]

College Dean: [Signature]

After college approved, submit the original signed form to the Faculty Senate (EA 3120) for undergraduate-level courses; for graduate-level courses submit the original signed form to the Graduate School (EE 1320). For undergraduate/graduate dual-level courses, submit the proposals to each office.

Faculty Senate Undergrad. Curriculum Comm: [Signature]

Faculty Senate Core Curriculum Comm: [Signature]

Graduate Council: [Signature]

Date: 7/1/2011

Submit New Course Proposal

You will see a confirmation page after you press the "Submit" button. If you do not see the confirmation page, please call x 4329 or send an email to ProvostWebMaster.utoledo.edu. Thanks.

http://curriculumtracking.utoledo.edu/NewCourse.asp

6/29/2011
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<tr>
<th>DATE</th>
<th>TIME</th>
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| Tuesday, Aug. 23 | 1 – 3 | Introduction to Course  
The Molecular Toolbox                  | Dr. Smas    |
| Thursday, Aug. 25 | 1 – 3 | Protein Purification                                                | Dr. Dignam  |
| Tuesday, Aug. 30 | 1 – 3 | Nucleic Acid Purification and DNA Sequencing -Sanger  
and pyrophosphate “deep sequencing” methods | Dr. Smas    |
| Thursday, Sept. 1 | 1 – 3 | Analysis of Transcript Levels                                         | Dr. Cicila  |
| Thursday, Sept. 8 | 1 – 3 | Using Antibodies                                                     | Dr. Overmeyer |
| Tuesday, Sept. 13 | 1 - 2 | EXAM 1                                                               | Dr. Smas    |
| Thursday, Sept. 15 | 1 – 3 | Host Vector Systems                                                  | Dr. Smas    |
| Thursday, Sept. 22 | 1 – 3 | Proteomics                                                           | Dr. Griffith |
| Thursday, Sept. 29 | 1 – 2 | Differential Screening  
2 – 3 Microarray                                                      | Dr. Smas  
Dr. Chin    |
| Tuesday, Oct. 4  | 1 - 2 | EXAM 2                                                               | Dr. Smas    |

06/29/11, Smas revision