Course Approval Form

For approval of new courses and deletions or modifications to an existing course.

registrar.gmu.edu/facultystaff/curriculum

Action Requested:

- [X] Create new course
- [ ] Inactivate existing course
- [ ] Modify existing course (check all that apply)
  - [ ] Title
  - [ ] Credits
  - [ ] Repeat Status
  - [ ] Grade Type
  - [ ] Prereq/coreq
  - [ ] Schedule Type
  - [ ] Restrictions
  - [ ] Other:

Course Level:

- [X] Undergraduate
- [ ] Graduate

College/School: Science **Department:** Biology

Submitted by: Deborah Polayes **Ext:** 3-4543 **Email:** dpolayes@gmu.edu

Subject Code: BIOL **Number:** 295

(Do not list multiple codes or numbers. Each course proposal must have a separate form.)

Effective Term: [ ] Fall [ ] Spring [X] Summer *Year* 2015

Title:

Current

Banner (30 characters max including spaces)

New: Summer Research in Biology

Credits: (check one) [ ] Fixed [X] Variable 1 to 3 or

Repeat Status: (check one)

- [ ] Not Repeatable (NR)
- [x] Repeatable within degree (RD)
- [ ] Repeatable within term (RT)

Maximum credits allowed: 3

Grade Mode: (check one)

- [X] Regular (A, B, C, etc.)
- [ ] Satisfactory/No Credit
- [ ] Special (A, B C, etc. +IP)

Schedule Type: (check one) LEC can include LAB or RCT

- [ ] Lecture (LEC)
- [ ] Lab (LAB)
- [ ] Recitation (RCT)
- [ ] Internship (INT)
- [X] Independent Study (IND)
- [ ] Seminar (SEM)
- [ ] Studio (STU)

Prerequisite(s):

Permission of instructor and Biology Program Director

Corequisite(s):

Instructional Mode:

- [X] 100% face-to-face
- [ ] Hybrid: ≤ 50% electronically delivered
- [ ] 100% electronically delivered

Restrictions Enforced by System: Major, College, Degree, Program, etc. Include Code.

Are there equivalent course(s)? [ ] Yes [X] No

If yes, please list

Catalog Copy for NEW Courses Only (Consult University Catalog for models)

Description (No more than 60 words, use verb phrases and present tense)	**Notes** (List additional information for the course)
Students enrolled in this course study life science related topics in an approved research environment during the summer. This course may involve one or more of the following: reading peer reviewed literature, conducting a field or laboratory study, attending scientific seminars and workshops, writing an abstract, preparing and presenting a poster, or writing a research paper.	May be taken for 1 to 3 credits and repeated once for a total of 3 credits. Total limit for BIOL 295 is 3 credits toward 44 credits for BS or BA (as long as the number of 100-200 level credits for the biology area has not been exceeded).

Indicate number of contact hours: Hours of Lecture or Seminar per week: Hours of Lab or Studio: Min of 15 hours per week

When Offered: (check all that apply) [ ] Fall [X] Summer [ ] Spring

Approval Signatures

Department Approval Date

College/School Approval Date

If this course includes subject matter currently dealt with by any other units, the originating department must circulate this proposal for review by those units and obtain the necessary signatures prior to submission. Failure to do so will delay action on this proposal.

Unit Name	Unit Approval Name	Unit Approver's Signature	Date

For Graduate Courses Only

Graduate Council Member Provost Office Graduate Council Approval Date

For Registrar Office's Use Only: Banner_____Catalog_____

revised 11/8/11

Course Proposal Submitted to the Curriculum Committee of the College of Science

1. COURSE NUMBER AND TITLE: Summer research in Biology

Course Prerequisites/Co-requisite:
Permission of instructor and Biology Program Director

Catalog Description:
Study of a life science related topic in an approved research environment during the summer. May involve reading peer reviewed literature, a field or laboratory study, attendance at scientific seminars and workshops, written abstract, poster preparation and presentation, or a written paper.

2. COURSE JUSTIFICATION:

Course Objectives:
This Research experience is being offered to lower division students. Research is critical for students in the biological sciences to understand the opportunities awaiting them.

Course Necessity:
More opportunities for our students to gain research experience.

Course Relationship to Existing Programs:

ASSIP is a summer program that has been successfully training students. The opportunity for students to get credit towards their degree has not been available for freshmen and sophomores who may be partaking in this program.

Course Relationship to Existing Courses:
This course will allow lower division students to start getting the research experience they'll need for later projects.

3. APPROVAL HISTORY:
HHMI (a laboratory participating in this ASSIP program) requires students to register for credit.
Upper division students can take research credits as BIOL495 and BIOL497. There is no mechanism for lower classmen to get credit.

4. SCHEDULING AND PROPOSED INSTRUCTORS:

Semester of Initial Offering:
Summer 2015

Proposed Instructors: