

**DEADLINES:**

REGULAR COURSE PROPOSALS: OCTOBER 23, 1998 FOR FALL, 1999 AND FEBRUARY 19, 1999 FOR SPRING, 2000  
 SHORT-TERM COURSE PROPOSALS: DECEMBER 11, 1998 FOR FALL, 1999 AND MARCH 26, 1999 FOR SPRING 2000

**PROPOSAL TITLE:** CHANGE requested in Gen Ed Math/Sci requirements for B.S. Physics

**SPONSOR/S:** K Magee-Sauer, Dept of Chem + Physics

**DEPARTMENT:** Chemistry + Physics

**CHECK ALL THAT APPLY:**

UNDERGRADUATE       GRADUATE

**COLLEGE:** LAS

**If LAS:**       History/Humanities  
                    Math/Sciences  
                    Social/Behavioral Sciences

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**TYPE OF PROPOSAL (Check ALL that Apply)**

<input type="checkbox"/> General Education	<input type="checkbox"/> New Course (NOT Gen. Ed.)
<input type="checkbox"/> New Course in _____ Bank	<input type="checkbox"/> Name Change (Dept., School, Major)
<input type="checkbox"/> Existing course, Add To _____ Bank	<input type="checkbox"/> Changes in Degree Requirements
<input type="checkbox"/> Multicultural/Global Designation	<input checked="" type="checkbox"/> Changes Involve Gen. Ed. requirements
<input type="checkbox"/> Writing Intensive Designation	<input type="checkbox"/> Minor Changes to Existing Courses
<input type="checkbox"/> New Minor/Concentration/Specialization	<input type="checkbox"/> Course is NOT General Education
<input type="checkbox"/> New Major/Degree Program	<input type="checkbox"/> Course IS General Education
<input type="checkbox"/> Short Term Course Proposal	

**DEPARTMENT**  
 (SIGNATURE INDICATES APPROVAL)

Robert Newland 11/2/98      Robert Newland 11/2/98  
 DEPT. CURRICULUM CHAIR / DATE      DEPT. CHAIRPERSON / DATE

**COLLEGE CURRICULUM COMMITTEE**  
 DATE OF OPEN HEARING (if necessary) \_\_\_\_\_

APPROVED  
 NOT APPROVED

COMMENTS:

Wanda Lynn Tuttleham 2-4-99  
 SIGNATURE      DATE

**ACADEMIC DEAN (& GRADUATE DEAN, for New Graduate Programs Only)**

APPROVED  
 NOT APPROVED

COMMENTS:

Ken Smith      2/4/99  
 SIGNATURE (Academic Dean)      DATE

\_\_\_\_\_  
 SIGNATURE (Graduate Dean)      DATE

**UNIVERSITY CURRICULUM COMMITTEE**

DATE OF OPEN HEARING (if necessary) 3/2/99

APPROVED

NOT APPROVED

COMMENTS:

James Deane 3/2/99  
SIGNATURE DATE

**SENATE**

Date announced at Senate 3/2/99 (same)

Voted upon at Senate:                      Approved                      Not Approved                      Date:

**EXECUTIVE VICE PRESIDENT/PROVOST**

APPROVED

NOT APPROVED If no, reasons are as follows:

STUDENT CREDIT HOURS \_\_\_\_\_ FACULTY LOAD HOURS \_\_\_\_\_ EQUALIZED CREDIT HOURS \_\_\_\_\_

OFFICIAL COPY & APPROVAL SHEET FILED (DATE): \_\_\_\_\_

DATE/SIGNATURE EXECUTIVE VICE PRESIDENT/PROVOST

*[Handwritten Signature]*

**REGISTRAR**

DATE APPROVED COURSE DESCRIPTION RECEIVED \_\_\_\_\_

HEGIS TAXONOMY & COURSE NUMBER ASSIGNED \_\_\_\_\_

DATE/SIGNATURE OF REGISTRAR Robert A. Kubat 3/30/99

**NOTIFICATION FORWARD:**

SENATE CURRICULUM COMMITTEE CHAIRPERSON

DEPARTMENT CHAIRPERSONS

ACADEMIC DEAN(S)

REGISTRAR

SPONSOR(S)

*TM 3/31/99*

**Minor Curricular Change:** Change in General Ed. requirements for B.S. in Physics

**1. Details:**

a. Change Requested in General Education Math/Science requirements

From: Introduction to Programming (0701.102)

To: Introduction to Programming (0701.102) *or* Computer Science and Programming (CS&P) (0704.103)

b. Sponsors: K. Magee-Sauer, and Department of Chemistry & Physics

**2. Rationale:**

a. Need:

We would like our physics majors to have programming skills that will benefit them in their future education and career plans. CS&P is a more appropriate course for many of our majors who already have programming experience and would like a knowledge base for more sophisticated data analysis and programming. Introduction to Programming currently uses “Visual Basic” which although useful to some, is not typically used in physics research.

Physics majors with strong programming and computer science backgrounds will be highly marketable when they graduate. We would like our students to be able to choose which programming course they are required to take according to their current skills and future needs.

b. Curricular Effect:

CS&P is a 4 credit course. Students opting to elect this course instead of Introduction to Programming will increase their General Education Requirements by 1 hour (from 49 to 50). Free Electives would then decrease from 11 hours to 10 hours for a 120 s.h. B.S. Physics degree.

Students may opt to take both courses where Introduction to Programming would count as a Math/Science General Education Course, and CS&P would count as an elective (general education, restricted, or free).

While we expect the number of physics majors to increase, currently we have around 5 majors per year. The impact on the enrollment in CS&P should be minimal.

**3. Results of Consultations:**

a. Seth Bergmann, Acting Chair, Computer Sciences Department