Faculty Senate • http://www.uwrf.edu/faculty_senate/welcome.html
Senators: Chair – David Rainville , Vice Chair – Kristen Hendrickson, Secretary – Kris Hiney, Executive Committee – Glenn Potts, David Furniss

To: Connie Foster, Chancellor
116 North Hall
University of Wisconsin-River Falls

From: David Rainville, Chair
Faculty Senate
University of Wisconsin-River Falls

RE: UW-RF Faculty Senate Motion 2008/2009/41

At the December 10, 2008 meeting of Wisconsin-River Falls Faculty senate, motion 2008-2009/41 was passed. This motion is forwarded for your action.

A motion from AP&P for approval of an emphasis/option change in the Physics Major - Applied Option (Liberal Arts).

X Approved

_____ Disapproved

Connie Foster
Connie Foster, Chancellor

1-28-09
Date

TRANSMITTAL for UNDERGRADUATE PROGRAMS: Changes or Proposals

I. INFORMATION:

A. Check all that apply: New Program ☐ Existing Program ☒

Name Change ☐ Credits Change ☒
Substantial Major / Minor Content Change ☐ Emphasis/Option Change ☒

B. Program Title: Physics Major - Applied Option (Liberal Arts)

C. Department(s) (Originating): Physics

D. College(s) (Originating): CAS

E. Other Programs / Departments Consulted (Requires letters of support from all Departments or Programs substantially affected):

1) 2)

3) 4)

F. Date of Implementation: Spring Semester 2009 Year

G. Have all courses in this program been approved? Yes ☒ No ☐ If "No", which ones?

H. Attach Request Narrative

II. UNIT APPROVALS: Requires signatures of all Department Chairs and Deans whose programs will be substantially affected by the changes or proposal. Signature lines for the affected Departments and Colleges (noted in "E" above), are on the back of this form. These signatures should be obtained prior to review by all other shared governance levels.

	Signature	Date
Department Curriculum Committee Chair (optional)	N/A	
Department Chair	[signature]	10-16-08
College Curriculum Cmtt. Chair	Charles O. Bade	10-30-08
Dean of College	Suzanne Hage	10-31-08
University Curriculum Cmtt. Chair	Barbara S. Nelson	11-07-08
Academic Policy & Program Cmtt. Chair	[signature]	11/18/08
Faculty Senate Chair	David P. Swinehart	12/10/08
Provost / Vice Chancellor	[signature]	
Chancellor	E. Foster	

Signature **Date**

*NOTE: The master copy of this transmittal & accompanying documents must be filed in the Provost's office upon final approval. The Provost's office will notify all appropriate administrative offices [Registrar, Dean(s), & Department Chair(s)] of approvals & necessary actions to implement changes

Narrative for Program Changes for Physics – Applied Option (Liberal Arts)

We are proposing modifying the number of credits on three physics courses, which will have a modest impact on the Applied Option Physics major. The three courses involved are the three Electronics courses, and they will be increased from 3 credits to 4 credits. This will reduce the number of Directed Electives in the major. The total number of credits for the Applied Option has been listed as 49-50, with 3-4 credits of Directed Electives in the major. To reduce confusion, we propose changing the total number of credits to 50, in parallel with the Option I Physics major.

PHYS 311 is a required part of the Core Courses for the Option I, Option II, Secondary Education and Applied majors. It is a directed elective in the Dual Degree program and an elective for both the Liberal Arts minor and the Secondary Education minor.

PHYS 312 and PHYS 313 are required for the Applied Option, and are allowed electives in all the other major options and both minors.

There is a common core of courses for the Option I, Option II, Secondary Education and Applied majors. The courses in the core add up to 25 credits. The proposed increase in credits for PHYS 311 will increase the core to 26 credits. The Applied Option requires all three Electronics courses, further reducing the number of available elective credits by two. The one remaining credit will be filled by PHYS 279, which was previously one of the Directed Elective courses. As a result of these changes, there will be no Directed Electives in this option.

Applied Option:

Core:
- PHYS 161 Calc-based Physics I .....4 credits
- PHYS 166 Calc-based Phys Lab I.....1 credit
- PHYS 162 Calc-based Physics II .....4 credits
- PHYS 167 Calc-based Physics Lab II.....1 credit
- PHYS 204 Intermediate Physics Lab .....1 credit
- PHYS 264 Modern Physics .....4 credits
- PHYS 301 Advanced Phys Lab I .....3 credits
- PHYS 302 Advanced Phys Lab II.....3 credits
- PHYS 311 Electronics: Circuits & Devices .4 credits
- PHYS 485 Seminar .....1 credit

Additional Required Courses:
- PHYS 250 Statics .....3 credits
- PHYS 252 Dynamics.....3 credits
- PHYS 254 Mechanics of Materials .....3 credits
- PHYS 312 Electronics: Linear Intg. Cir.....4 credits
- PHYS 313 Digital Electronics.....4 credits
- PHYS 361 Math of Physics & Eng I.....3 credits
- PHYS 362 Math of Physics & Eng II.....3 credits
- PHYS 279 Introduction to Internships .....1 credit
- Total for Applied Option.....50 credits