

10-7-2004

PHYS 3002 Course Proposal 10/07/2004

Curriculum Committee

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Electronic Course Authorization System (ECAS)

PHYS 3002 - VIEW COURSE PROPOSAL

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Approvals Received:	Department on 09-17-04 by Carol Ford (fordcj@umn.edu)	Curriculum Committee on 10-07-04 by Karen Van Horn (vanhornk@umn.edu)
Approvals Pending:	Curriculum Committee > Campus Assembly > Catalog	
Effective Status:	Active	
Effective Term:	1059 - Fall 2005	
Course:	PHYS 3002	
Institution:	UMNMO - Morris	
Career:	UGRD	
College:	MDSM - UMM-Science & Math, Div of	
Department:	242 - UMM-Sci & Math, Div of-Adm	

General

Course Title Short:	Topics in Bio/Medical Phys
Course Title Long:	Topics in Biological and Medical Physics
Max-Min Credits for Course:	New: 4.0 to 4.0 credit(s) Old: 3.0 to 3.0 credit(s)
Catalog Description:	Selected topics in biophysics with an emphasis on modern medical imaging techniques. Biophysical topics include fluid flow in cardiovascular systems, molecular transport, and the nervous system. Physics techniques covered include electrocardiography, microscopy, x-ray imaging, magnetic resonance imaging, ultrasound imaging, computer tomography, and image reconstruction.
Additional Course Information (for catalog production):	<no text provided>
Grading Basis:	Stdnt Opt
Honors Course:	No
Delivery Mode(s):	Classroom
Years most frequently offered:	Other frequency
Term(s) most frequently offered:	Fall, Spring
Component 1:	LEC (with final exam)

<u>Auto-Enroll Course:</u>	No
<u>Graded Component:</u>	LEC
<u>Academic Progress Units:</u>	New: Not allowed to bypass limits. 4.0 credit(s) Old: Not allowed to bypass limits. 3.0 credit(s)
<u>Financial Aid Progress Units:</u>	New: Not allowed to bypass limits. 4.0 credit(s) Old: Not allowed to bypass limits. 3.0 credit(s)
<u>Repetition of Course:</u>	New: Repetition not allowed. Old: Repetition not allowed.
<u>Course Prerequisites for Catalog:</u>	1101, 1102; 2101 recommended
<u>Course Equivalency:</u>	No course equivalencies
<u>Consent Requirement:</u>	No required consent
<u>Enforced Prerequisites (course-based or non-course-based)</u>	No prerequisites
<u>Editor Comments:</u>	Faculty sponsor: Len Keeler. Provisional approval is requested. This course will provide an opportunity for students to gain an understanding of physics in medical and biological contexts.
<u>Proposal Changes:</u>	<no text provided>
<u>History Information:</u>	Provisional approval received 1/26/04
<u>Assessment and Goals:</u>	Student will gain an understanding of various medical and biological topics in biophysics with an emphasis on imaging technologies. Achievement will be assessed through homework, exams, projects and in-class discussions.
<u>Rationale for Changes or Exceptions:</u>	CHANGING TO 4 CR WILL MAKE IT POSSIBLE FOR THE COURSE TO FULFILL THE PHYSICS MAJOR ELECTIVE REQUIREMENT.

General Education

<u>Faculty Sponsor Name:</u>	Len Keeler
<u>Requirement this course fulfills:</u>	SCI - SCI Physical & Biological Sciences without Lab

**Provisional
Approval:**

Yes; date: Jan 26, 2004

**Regular
Approval:**

Yes; date: Sept 30, 2004