General Information

Course Bulletin Listing/Subject Area	Physics		
Fiscal Unit/Academic Org	Physics - D0684		
College/Academic Group	Arts And Sciences		
Level/Career	Graduate, Undergraduate		
Course Number/Catalog	5800		
Course Title	Engineering Physics Design I		
Transcript Abbreviation	EngPhys Design 1		
Course Description	Presents fundamentals of engineering-physics design and leads to skills development relevant to a specific design proposal. Technical communication skills, both written and oral, are employed throughout.		
Semester Credit Hours/Units	Fixed: 3		

Offering Information

Length Of Course	14 Week
Flexibly Scheduled Course	Never
Does any section of this course have a distance education component?	No
Grading Basis	Letter Grade
Repeatable	No
Course Components	Laboratory, Lecture
Grade Roster Component	Lecture
Credit Available by Exam	No
Admission Condition Course	No
Off Campus	Never
Campus of Offering	Columbus

Prerequisites and Exclusions

Prerequisites/CorequisitesPhysics 2301 (263); a second writing class; senior standing in Engineering Physics.Exclusions

Cross-Listings

Cross-Listings

Subject/CIP Code

Subject/CIP Code Subsidy Level Intended Rank 40.0801 Baccalaureate Course Senior

Quarters to Semesters

Quarters to Semesters

List the current courses by number and title that are to be subsumed into proposed course

Modified or re-envisioned course that includes substantial parts of the content and learning goals of one or more quarter courses Physics 780.20 Special Topics

Requirement/Elective Designation

Required for this unit's degrees, majors, and/or minors

Course Details

Course goals or learning objectives/outcomes	 Students will learn methods needed to explain complex technical material to diverse audiences in clear and understandable ways. 					
	 Students will learn how to make effective written and oral presentations. Students will learn the principles of engineering design as applied to a capstone experience. 					
	 Students will learn to work effectively in teams. 					
	• Students will learn to develop management skills needed to oversee the design of complex engineering projects,					
	with consideration to economic, environmental, sustainability, manufacturability, ethical, health and safety, social and political issues					
	Content Topic List	● Technical writing: reports, proposals, audience, manuals, etc				
 Oral presentations: graphics, multimedia 						
Teamwork: organization, brainstorming, meetings						
• Design: the design process with realistic constraints such as economic, environmental, social, political, ethical,						
health and safety, manufacturability and sustainability						
Attachments	• EngPhys5800.pdf (Syllabus. Owner: Hughes,Richard E)					
Comments	Made change to C	Course Title: "Engineering	Physics Design I" (by Had	lad,Christopher Martin on 01/20/2012 10:23 AM)		
Workflow Information	Status	User(s)	Date/Time	Step		
	Submitted	Hughes, Richard E	01/19/2012 09:17 AM	Submitted for Approval		
	Approved	Hughes,Richard E	01/19/2012 01:38 PM	Unit Approval		
	Approved	Hadad,Christopher Martin	01/20/2012 10:23 AM	College Approval		

Nolen,Dawn

te Chantal

Pending Approval

Jenkins,Mary Ellen Bigler Meyers,Catherine Anne

Hogle,Danielle Nicole Hanlin,Deborah Kay

Vankeerbergen,Bernadet 01/20/2012 10:23 AM

ASCCAO Approval