

Program Change Request

New Program Proposal

Date Submitted: 02/09/26 10:44 am

Viewing: **PHYS : Minor in Quantum Science**

Last edit: 02/09/26 10:44 am

Changes proposed by: segre

Program Status	Active		
Requestor	Name	Carlo Segre	E-mail
	segre@iit.edu		
Origination Date	2026-2-9		
Is this an interdisciplinary program?	No		
Is this stem-eligible?	Yes		
Available for direct application?	Yes		
Academic Unit	Physics		
College	Lewis College of Science and Letters		
Program Title	Minor in Quantum Science		
Effective Academic Year	2026 - 2027	Effective Term	
	Summer 2026		
Academic Level	Undergraduate		

In Workflow

1. PHYS Chair
2. Academic Affairs
3. Undergraduate Academic Affairs
4. LS Dean
5. Undergraduate Studies Committee Chair
6. Faculty Council Chair
7. Academic Affairs

Approval Path

1. 02/09/26 12:45 pm
Pavel Snopok (psnopok):
Approved for PHYS Chair
2. 02/11/26 5:08 pm
Ayesha Qamer (aqamer): Approved for Academic Affairs
3. 02/12/26 10:21 am
Joseph Gorzkowski (jgorzkow):
Approved for Undergraduate Academic Affairs
4. 02/12/26 1:07 pm
Jennifer deWinter (jdewinter):
Approved for LS Dean

If all courses in a subject in your department are required, please enter each subject followed by the number ranges in the "Quick Add" field in the pop up box when you click the green plus button below. For example: ARCH 100-499.

What courses will factor the major GPA?
 PHYS 223 - General Physics III
 PHYS 224 - General Physics III for Engineers
 PHYS 404 - Subatomic Physics

- PHYS 405 - Fundamentals of Quantum Theory I
- PHYS 407 - Introduction to Quantum Computing
- PHYS 406 - Fundamentals of Quantum Theory II
- PHYS 412 - Modern Optics and Lasers
- PHYS 415 - Solid State Electronics
- PHYS 427 - Advanced Physics Laboratory I
- PHYS 437 - Solid State Physics

Program Type Minor

Is there more than one Academic Unit proposer?

No

Program Code PHYS

Program Attribute

Total Program 15
Credit Hours

Program Narrative and Justification

Narrative description of how the institution determined the need for this program and how the program will address that need. If the program is replacing a current program(s), identify the current program(s) being replaced by the new program(s) and provide details describing the current program(s). If the program will be offered in connection with, or as a result of, a governmental initiative, provide details of that initiative.

Narrative description of how the program was designed to meet local, regional or national market needs. For example, if the program is designed to meet local workforce needs, describe how local workforce agencies were consulted. Include how the program was designed to meet academic level, admission requirements, and prerequisites were determined. Include how the program was designed to meet needs received from potential employers about course content; and how the program was designed to meet needs of students and employers.

Academic Information

Advising

Since quality advising is a key component of good retention, gr
how will students be mentored? What student professional org
will the department work with the Career Services office to dev

Proposed Catalog Entry

Admission

Course Requirements

One of the following:

PHYS 223	General Physics III	0 OR 4
PHYS 224	General Physics III for Engineers	3

The following two courses:

PHYS 405	Fundamentals of Quantum Theory I	3
PHYS 407	Introduction to Quantum Computing	3

At least 6 additional credit hours selected from the following:

PHYS 300	Instrumentation Laboratory	4
PHYS 404	Subatomic Physics	3
PHYS 406	Fundamentals of Quantum Theory II	3
PHYS 412	Modern Optics and Lasers	3
PHYS 415	Solid State Electronics	3
PHYS 427	Advanced Physics Laboratory I	3
PHYS 437	Solid State Physics	3

Sample

Curriculum/Program

Requirements

N/A

Program Outcomes and Assessment Process

What are your learning objectives in this program? Please list each learning objective in the boxes below:

Note: These should be the same as described in your assessment plan at the

Undergraduate Program Requirements

Professional Ma:

400-level credit hour
limit?

500-600-level credit h
Minimum:

Maximum:

700-level credit hour

Report to Faculty
Council

Report from Faculty
Reviewer
Comments

Key: 690