

FACULTY AGENDA ITEM

Date: 2/19/2023

Submitted by: Karen Camarda, x. 2145

SUBJECT: Significant Program Edits – Engineering-Physics, AS

Description / Rationale: Most electives and EG 303 are being removed from this degree program to make room for the new general education requirements. Addition of option to select between EG 360 or PS 3XX course for 3 credit hours. Addition of CN 150 as a required course.

Financial Implications: None indicated.

Proposed Effective Date: Fall 2024

Request for Action: *Approval by AAC/.FAC/FS/ Gen Fac, etc*

Approved by: *AAC on 2/12/2024*

FAC on date

Faculty Senate on date

Attachments Yes No

Program Change Request

Date Submitted: 11/13/23 10:20 am

Viewing: **EGP : Engineering-Physics**

Last approved: 10/17/23 12:05 pm

Last edit: 02/13/24 9:48 am

Changes proposed by: Karen Camarda (karen.camarda)

Catalog Pages Using
this Program [Engineering Physics, AS](#)

Rationale for

Change Type [Significant](#)

Summarize Changes and Include Rationale Most electives and EG 303 are being removed from this degree program to make room for the new general education requirements. ((Holly 10/17/23: Completed revisions according to new standardization approved by Deans and Provost Office))

General Information

Effective Catalog Edition 2024-2025

Department Physics and Astronomy

College College of Arts and Sciences

Division Natural Science & Mathematics

Degree Level Undergraduate

Program Title Engineering-Physics

Degree to be Offered Associate of Science (AS)

Is this program offered completely online? [No](#)

Does this program lead to a teaching certification? No

Program Code EGP

Is this program an interdisciplinary program? No

Interdisciplinary CIP Code [141201 - Engineering Physics/Applied Physics.](#)

Modality

New Program Header

Statement of Justification/Rationale for Offering the Program

Program Demand

In Workflow

1. Acad Ops
2. PS Chair
3. Library
4. NSM Chair
5. CA Dean
6. CFCCC Chair
7. Assoc Dean CFC
8. CA Assoc Dean
9. Governance Check
10. AA Committee
11. Faculty Senate
12. General Faculty
13. WUBOR
14. Final Acad Ops
15. Registrar

Approval Path

1. 11/13/23 1:53 pm
Holly Broxterman (holly.broxterman): Approved for Acad Ops
2. 11/13/23 2:31 pm
Karen Camarda (karen.camarda): Approved for PS Chair
3. 11/13/23 6:01 pm
Sean Bird (sean.bird): Approved for Library
4. 11/17/23 3:30 pm
Andrew Herbig (andrew.herbig): Approved for NSM Chair
5. 11/29/23 9:04 pm
Kelly Erby (kelly.erby): Approved for CA Dean
6. 01/26/24 3:38 pm
Bruce Mactavish (bruce.mactavish): Approved for CFCCC Chair
7. 01/30/24 9:24 pm
Kelly Erby (kelly.erby): Approved for Assoc Dean CFC
8. 02/07/24 5:41 pm
Kelly Erby (kelly.erby): Approved for CA Assoc Dean
9. 02/07/24 6:00 pm
Holly Broxterman

Projected Enrollment for the Initial Three Years of the Program

Implementation

(holly.broxterman):
Approved for
Governance Check
10. 02/13/24 9:49 am
Holly Broxterman
(holly.broxterman):
Approved for AA
Committee

Admission and Curriculum

Admission Criteria

Total Number of

Semester Credit

Hours for the

Degree

Curriculum

History

1. Apr 21, 2022 by
clmig-jwilling
2. Sep 30, 2022 by
Holly Broxterman
(holly.broxterman)
3. Oct 17, 2023 by
Holly Broxterman
(holly.broxterman)
4. Oct 17, 2023 by
Holly Broxterman
(holly.broxterman)

Degree Requirements

In addition to the requirements stated below, students must complete 34-35 hours of General Education, all requirements for an Associate of Science degree, and any additional hours needed to reach the minimum 60 credit hours required for graduation. Some of the courses below may also fulfill general education or other degree requirements. Please see your advisor for more information.

Electives

BI 102	General Cellular Biology	5
CH 151	Fundamentals of Chemistry I	5
CH 152	Fundamentals of Chemistry II	5
EG 116	Engineering Graphics	3
EG 360	Mechanics of Materials	3
MA 301	Linear Algebra	3
MA 331	Differential Equations	3
Any upper-division Physics courses		3

Required Course Inside Department

<u>EG 103</u>	Physics & Engineering Seminar I	1
<u>EG 250</u>	Engineering Mechanics: Statics	3
EG 303	Physics & Engineering Seminar II	1
<u>EG 351</u>	Engineering Mechanics: Dynamics	3

Select one: 3

EG 360 Mechanics of Materials

PS 3XX Any 300 Level, 3 credit PS course

<u>PS 281</u>	General Physics I	5
<u>PS 282</u>	<u>General Physics II</u>	<u>5</u>

Subtotal 20

Required Courses Outside Department

<u>CN 150</u>	<u>Public Speaking</u>	<u>3</u>
<u>MA 151</u>	Calculus & Analytic Geometry I	5
<u>MA 152</u>	Calculus & Analytic Geometry II	5
<u>MA 253</u>	Calculus/Analytic Geometry III	3

CH 151	Fundamentals of Chemistry I	5
or BI 102	General Cellular Biology	
Electives		
Electives		12
Subtotal		16
Total Hours		36

~~Degree Requirements To major in Engineering Physics with an Associate of Science Degree, one must satisfactorily complete:~~

Pathway

Core Faculty

Faculty Workload Analysis

Faculty Workload Analysis (describe how the course offering schedule and anticipated enrollments correlate to faculty lines)

Supplemental Files

Reviewer **Beth O'Neill (beth.oneill) (11/14/23 9:39 am)**: Revised to significant change.
 Comments **Holly Broxterman (holly.broxterman) (02/13/24 9:48 am)**: Approved by Academic Affairs Committee in 2/12/2024 meeting.