

Name \_\_\_\_\_

Student ID \_\_\_\_\_

Date \_\_\_\_\_

## Fall2017 DDEP Math/Mechanical Engineering Checklist

### GENERAL EDUCATION

#### I. Foundational Intellectual Skills (12-13 hours)

- \_\_\_ FYS110 First Year Seminar
- \_\_\_ ENG112 English Composition
- \_\_\_ COM101 Public Speaking
- \_\_\_ Mathematics (met by major requirements)

#### II. Knowledge Acquisition (28 hours)

- \_\_\_ CHE140 General Chemistry I
- \_\_\_ CHE141 General Chemistry I Lab
- \_\_\_ PSY101 General Psychology, or PSY220 Human Growth & Development, or SOC101 Introduction to Sociology, or SOC175 Introduction to Anthropology, or GST200 Introduction to Gender Studies
- \_\_\_ ECN 200 Introductory Economics or HIS 102 History of the Modern World or POL 102 Introduction to Political Science
- \_\_\_ HUM210 Humanities
- \_\_\_ PHL 130 Human Nature & Person
- \_\_\_ 1 Foreign Language

#### III. Marian's Specific Core (6 hours)

- \_\_\_ THL105 Introduction to Theology
- \_\_\_ Second THL

#### IV. Greater Depth Cluster

- a. Completion of a minor or second major outside school (or department if College of Arts & Sciences)
- b. Completion of an interdisciplinary minor or concentration outside the first major. See catalog for approved programs.
- c. Focus on a specific theme (cluster) outside the major. See catalog for cluster course areas

Total Earned General Education Hours\_(47)\_

### APPLIED PHYSICS MAJOR CORE REQUIREMENTS (30 hours)

- \_\_\_ MAT 230 Calculus I 4
- \_\_\_ MAT 231 Calculus II 4
- \_\_\_ PHY 201 University Physics I 4
- \_\_\_ PHY 202 University Physics II 4
- \_\_\_ PHY 212 Modern Physics 4
- \_\_\_ PHY 220 Astrophysics and Cosmology 3
- \_\_\_ PHY 440 Introduction to Nanotechnology and Nanosystems 3
- \_\_\_ PHY 460 or 498 Physics Intern./Direct Research 2
- \_\_\_ PHY 490 Senior Seminar 2

### APPLIED PHYSICS MAJOR REQUIREMENTS (6 – 7 hours) (CHOOSE 2)

- \_\_\_ CHE 325 Physical Chemistry 4
- \_\_\_ PHY 330 Electricity and Magnetism 3
- \_\_\_ PHY 350 Biophysics 3

### APPLIED PHYSICS ELECTIVES (24 hours)

Chosen from: PHY 230, EGR 200 and above, CST 150 and above, MAT 305 and above, CHE 300 and 425.

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Total Earned Major Hours\_\_\_\_\_

# MARIAN UNIVERSITY

Indianapolis®

## 2020-2021 B.S. Applied Physics Sample Four-Year Plan

Year One					
Fall Semester			Spring Semester		
Requirement Category	Course	Credit Hours	Requirement Category	Course	Credit Hours
First Year Seminar	FYS 110	3	Major	MAT 231	4
Major	MAT 230	4	Major	CST170	4
Major	CHE151	4	Major	PHY201	4
General Education	COM101	3	General Education	ENG 112	3
			General Education	THL105	3
<b>Semester Hours</b>	<b>14</b>		<b>Semester Hours</b>	<b>18</b>	
<b>Cumulative Hours</b>	<b>14</b>		<b>Cumulative Hours</b>	<b>32</b>	
Year Two					
Fall Semester			Spring Semester		
Requirement Category	Course	Credit Hours	Requirement Category	Course	Credit Hours
Minor	MAT 305	4	Major	PHY 212	4
Major	PHY202	4	Minor	MAT315	3
Major (elective)	ME200	3	General Education	HIS 102	3
Major (elective)	ME270	3	General Education	For. Lang.	4
			Major (elective)	EGR 274	3
<b>Semester Hours</b>	<b>14</b>		<b>Semester Hours</b>	<b>17</b>	
<b>Cumulative Hours</b>	<b>46</b>		<b>Cumulative Hours</b>	<b>63</b>	
Year Three					
Fall Semester			Spring Semester		
Requirement Category	Course	Credit Hours	Requirement Category	Course	Credit Hours
Major	PHY220	3	Major	PHY 460	3
Major	PHY330	3	Major	PHY 350	3
Minor	MAT310	3	Major (elective)	EGR 272	3
Major (elective)	MAT322	3	General Education	HUM210	3
General Education	PSY101	3	General Education	Second THL	3
Major	PHY460	1	Major	PHY460	1
<b>Semester Hours</b>	<b>16</b>		<b>Semester Hours</b>	<b>16</b>	
<b>Cumulative Hours</b>	<b>79</b>		<b>Cumulative Hours</b>	<b>95</b>	
Year Four					
Fall Semester			Spring Semester		
Requirement Category	Course	Credit Hours	Requirement Category	Course	Credit Hours
Major	PHY490	2	Major	PHY440	3
Major (elective)	CST200	4	Elective		3
General Education	PHL130	3	Elective		3
Elective		3	Elective		3
Elective		3	Elective		3
Elective		3			
<b>Semester Hours</b>	<b>18</b>		<b>Semester Hours</b>	<b>15</b>	
<b>Cumulative Hours</b>	<b>113</b>		<b>Cumulative Hours</b>	<b>128</b>	

\*A minimum 2.0 cumulative GPA and a minimum 2.0 major GPA are required for graduation, so monitor your GPA closely. To meet degree requirements, some disciplines require higher grades in each course or a higher cumulative GPA

This plan is only a sample and will vary by student and course availability.