

**B.S. APPLIED PHYSICS  
2023-2024**

Name: \_\_\_\_\_ ID#: \_\_\_\_\_ Anticipated Grad Date: \_\_\_\_\_

**MAJOR REQUIREMENTS: (35 semester hours)**

Required Courses: (35 semester hours)

	<u>Cr Hrs.</u>	<u>Course</u>	<u>Term</u>	<u>Grade</u>
PHY 103 General Physics I .....	4	_____	_____	_____
PHY 104 General Physics II .....	4	_____	_____	_____
PHY 205 Modern Physics .....	4	_____	_____	_____
PHY 304 Electricity & Magnetism .....	4	_____	_____	_____
MAT 211 Calculus I .....	4	_____	_____	_____
MAT 221 Calculus II .....	4	_____	_____	_____
MAT 231 Calculus III .....	4	_____	_____	_____
MAT 251 Intro to Scientific Computing .....	3	_____	_____	_____
SCI 494/SCI 469 Senior Project I or Internship .....	2	_____	_____	_____
SCI 495 Senior Project II .....	2	_____	_____	_____

**AREAS OF CONCENTRATION choose one (19 semester hours)**

**Biomedical Concentration:**

Required Courses:

BIO 120 Intro to Biology: Cellular & Molecular Biology .....	4	_____	_____	_____
BIO 121 Intro to Biology: Ecology & Evolutionary Biology .....	4	_____	_____	_____
BIO 210 Human Anatomy & Physiology I .....	4	_____	_____	_____

Select two or more courses totaling a minimum of 7 hours:

BIO 207 Medical Terminology .....	3	_____	_____	_____
BIO 220 Human Anatomy & Physiology II .....	4	_____	_____	_____
BIO 240 Biodiversity .....	4	_____	_____	_____
BIO 320 Genetics .....	4	_____	_____	_____
BIO 360 Microbiology .....	4	_____	_____	_____
BIO 390 Special Topics: Adv. Anatomy & Kinesiology .....	4	_____	_____	_____
EXS 320 Biomechanics in Exercise & Sport .....	3	_____	_____	_____

**Chemistry Concentration:**

Required Courses:

CHE 183 Principles of Chemistry I .....	4	_____	_____	_____
CHE 184 Principles of Chemistry II .....	4	_____	_____	_____
CHE 201 Organic Chemistry I .....	4	_____	_____	_____

Select two or more courses with a CHE prefix totaling a minimum of 7 hours:

CHE 202 Organic Chemistry II .....	4	_____	_____	_____
CHE 210 Environmental Chemistry .....	4	_____	_____	_____
CHE 250 Quantitative Analysis .....	4	_____	_____	_____
CHE 301 Biochemistry .....	3	_____	_____	_____

**General Science Concentration:** (Note: Science Teacher Licensure, these courses plus all courses required for Teacher Licensure)

BIO 120 Intro to Biology: Cellular & Molecular Biology .....	4	_____	_____	_____
BIO 121 Intro to Biology: Ecology & Evolutionary Biology .....	4	_____	_____	_____
CHE 183 Principles of Chemistry I .....	4	_____	_____	_____
CHE 184 Principles of Chemistry II .....	4	_____	_____	_____
ENV 362 Environmental Science Pedagogy .....	3	_____	_____	_____

**Astronomy Concentration:**

PHY 102 Astronomy .....	4	_____	_____	_____
PHY 204 Cosmology .....	3	_____	_____	_____
PHY 302 Astrophysics .....	4	_____	_____	_____
PHY 402 Observational Astronomy .....	4	_____	_____	_____
PHY 489 Independent Study .....	4	_____	_____	_____

TOTAL HOURS REQUIRED

MINIMUM 54 SEMESTER HOURS

**GRADUATION REQUIREMENTS:**

- Minimum 124 semester hours
- Minimum cumulative GPA of at least 2.0 in all coursework at Brevard and minimum cumulative GPA of at least 2.0 in all courses required for major. Some majors may have more stringent requirements (see major requirements in catalog)
- Complete a minimum of 32 semester hours at Brevard and complete 50% of major requirements at Brevard.
- Errors contained on the checklist do not release the student from meeting graduation requirements as stated in the catalog