

**BA APPLIED PHYSICS
2019-2020**

Name: _____ ID#: _____ Anticipated Grad Date: _____

MAJOR REQUIREMENTS: (35 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	_____	_____

Choose ONE of the AREAS OF CONCENTRATION (19 Hours)

Biomedical Concentration:

Required Courses:

BIO 110 General Biology: Ecology & Evolutionary Biology	4	_____	_____
BIO 120 General Biology: Cellular & Molecular 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 310 Developmental Biology	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 103 Principles of Chemistry I	4	_____	_____
CHE 104 Principles of Chemistry II	4	_____	_____
CHE 201 Organic Chemistry I	4	_____	_____

Select two or more course 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	_____	_____

Geology Concentration:

Required Courses:

GEO 101 Physical Geology	4	_____	_____
GEO 105 Historical Geology	4	_____	_____
GEO 210 Mineralogy	4	_____	_____

Select two or more course with a GEO prefix totaling a minimum of 7 hours:

GEO 201 Environmental Geology	4	_____	_____	_____
GEO 270 Field Study in Geology	4	_____	_____	_____
GEO 301 Energy & Mineral Resources.....	4	_____	_____	_____
GEO 310 Structural Geology	4	_____	_____	_____
GEO 312 Geomorphology	4	_____	_____	_____

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

BIO 110 General Biology: Ecology & Evolutionary Biology.....	4	_____	_____	_____
BIO 120 General Biology: Cellular & Molecular Biology.....	4	_____	_____	_____
CHE 103 Principles of Chemistry I	4	_____	_____	_____
CHE 104 Principles of Chemistry II	4	_____	_____	_____
ENV 362 Environmental Science Pedagogy	3	_____	_____	_____

Astronomy Concentration:

Required Courses:

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

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