

# Bachelor of Science in Natural Sciences -- 120 Credits

Area of Concentration: Physics

## GENERAL EDUCATION REQUIREMENTS

### COMPETENCY AREAS - See Approved List of GenEd Courses

| Writing  | CR | Satisfied/Term |
|--|----|----------------|
| Engcmp 0003 or 0005                            | 3  |                |
| Engcmp 0004 or 0006                            | 3  |                |
| <b>1 Primary Wtg OR 2 Wtg Enhanced Courses</b> |    |                |
|  | 3  |                |
|  | 3  |                |
| <b>Requirement Satisfied</b>                   |    |                |

| SPEAKING (Select one option below)               |   |  |
|--|---|--|
| <b>Option A: Any 3 Speaking Enhanced Courses</b> |   |  |
|  | 3 |  |
|  | 3 |  |
|  | 3 |  |
| <b>Option B: 1 course from each area below</b>   |   |  |
| <b>Any Primary Speaking Course</b>               |   |  |
|  | 3 |  |
| <b>Any Speaking Enhanced Course</b>              |   |  |
|  | 3 |  |

| BASIC ALGEBRA & QUANTITATIVE REASONING   |    |                |
|--|----|----------------|
| The following requirements may be satisfied through placement exams; UPJ courses, transfer or College in High School courses |    |                |
| <b>Basic Algebra Requirement</b>   | CR | Satisfied/Term |
| Satisfied by:  |    |                |
| <b>Quantitative Reasoning Requirement</b>  |    |                |
| Satisfied by:  |    |                |

### KNOWLEDGE AREAS - See Approved List of GenEd Courses

| Social Science - 12 credits minimum                    |  |  |
|--|--|--|
| Select one of the following options                    |  |  |
| <b>A. Select 1 course from 4 different disciplines</b> |  |  |
| <b>B. Select 1 course from 3 different disciplines</b> |  |  |
| <b>AND 1 follow-up course in any one of those 3</b>    |  |  |
| Anthropology   |  |  |
| Economics  |  |  |
| Geography  |  |  |
| History  |  |  |
| Political Science                                      |  |  |
| Sociology  |  |  |
| Follow-up course                                       |  |  |

| Humanities - 12 credits minimum                        |  |  |
|--|--|--|
| Select one of the following options                    |  |  |
| <b>A. Select 1 course from 4 different disciplines</b> |  |  |
| <b>B. Select 1 course from 3 different disciplines</b> |  |  |
| <b>AND 1 follow-up course in any one of those 3</b>    |  |  |
| Communication  |  |  |
| English Literature                                     |  |  |
| English Writing  |  |  |
| Fine Arts  |  |  |
| Foreign Language                                       |  |  |
| Journalism   |  |  |
| Music  |  |  |
| Philosophy   |  |  |
| Theatre  |  |  |
| Follow-up course                                       |  |  |

| Natural Science - 12 credits minimum |    |  |
|--------------------------------------|----|--|
| Fulfilled by Required Course         | 12 |  |

## MAJOR REQUIREMENTS

| Required Courses |                           | CR | Satisfied/Term |
|------------------|---------------------------|----|----------------|
| Biol 0110        | General Biology 1         | 3  |                |
| Biol 0111        | General Biology 1 Lab     | 1  |                |
| Biol 0120        | General Biology 2         | 3  |                |
| Biol 0121        | General Biology 2 Lab     | 1  |                |
| Chem 0111        | General Chemistry 1       | 3  |                |
| Chem 0112        | General Chemistry 2       | 3  |                |
| Chem 0113        | General Chemistry 1 Lab   | 1  |                |
| Chem 0114        | General Chemistry 2 Lab   | 1  |                |
| ET 0030          | CS Programming & Aps      | 2  |                |
|                  | <b>OR any CS course</b>   | 3  |                |
| Math 0221        | Analytic Geom & Calc 1    | 4  |                |
| Math 0231        | Analytic Geom & Calc 2    | 4  |                |
| Math 0241        | Analytic Geom & Calc 3    | 4  |                |
| Phys 0150        | Physics 1                 | 4  |                |
| Phys 0151        | Physics 1 lab             | 1  |                |
| Phys 0152        | Physics 2                 | 4  |                |
| Phys 0153        | Physics 2 lab             | 1  |                |
| Phys 0400        | Classical Mechanics       | 3  |                |
| Phys 0450        | Electromagnetism & Optics | 3  |                |
| Phys 0480        | Astrophysics              | 3  |                |
| Phys 1300        | Quantum Physics           | 3  |                |
| Phys 1400        | Advanced lab              | 1  |                |

| Geology Electives                                       |    |                |
|---|----|----------------|
| Complete any 7 credits in Geology and Planetary Science |    |                |
|   | CR | Satisfied/Term |
| Geol  | 3  |                |
| Geol  | 4  |                |

### FREE ELECTIVES

| FREE ELECTIVES   |  |  |
|--|--|--|
| Free electives are the balance of credits required for graduation (120) that are not used to satisfy competencies, knowledge areas, major requirements, electives, or any related area required by the department. |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
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#### IMPORTANT INFORMATION:

This sheet is an unofficial representation of the major requirements and the information is subject to change. It is not an official record of academic progress and should not be treated as such. Official degree information can only be obtained through the Division Office or the Office of the Registrar.

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