

Name: _____

ID#: _____

Email: _____

Biology Credits: 39 Total Minimum Credits: 112

1 Core Biology Courses - 30cr (Required)

| | | Prereqs | Sem | Grade |
|----------|-------------------------------|---------|----------|-------|
| BIOL 200 | Concepts in Biology (4cr) | △□ | None | |
| R120:201 | Found of Cell/Molec (3cr) | △□● | BIOL 200 | |
| R120:202 | Found of Cell/Molec Lab (1cr) | △□● | BIOL 200 | |
| BIOL 205 | Found of Ecol/Evol (3cr) | △□● | BIOL 200 | |
| BIOL 206 | Found of Ecol/Evol Lab (1cr) | △□● | BIOL 200 | |

| | | | | |
|----------|--------------------------------|-----|-----------|--|
| R120:320 | Comp. Vertebrate Anatomy (4cr) | | 201/202 | |
| R120:335 | General Microbiology (4cr) | | 201/202+ | |
| BIOL 340 | Mammalian Physiology (4cr) | △□● | 201/202 | |
| R120:352 | Genetics (3cr) | | 201/202 | |
| R120:360 | Biochemistry (3cr) | | 201/202++ | |

2 Ecology and Evolution - 3cr (Choose one class)

| | | | | |
|----------|-----------------|---|---------|--|
| BIOL 222 | Evolution | △ | 101/102 | |
| R120:280 | Ecology | □ | 101/102 | |
| R120:282 | Animal Behavior | △ | 101/102 | |
| R120:370 | Plant Ecology | □ | 101/102 | |

3 Biology Electives - 6cr

| Choose Two (3cr) Classes | | | | |
|--------------------------|---------------------------------|-----|-------------------|--|
| R120:325 | Animal Parasites | | 201/202+ | |
| R120:342 | Developmental Biology | | 201/202+ | |
| R120:345 | Comparative Physiology | □ | R120-355/6 | |
| R120:346 | Neurobiology | □ | R120:201 | |
| R120:350 | Immunology | □ | 201/202 | |
| R120:365 | Human Ecology | □ | 201/202 | |
| BIOL 368 | Ecol & Evolution of Disease | □ | 201/202 | |
| BIOL 375 | Conservation Biology | | 202 & 206 | |
| BIOL 383 | Neural Basis of Behavior | △□ | 201/202 | |
| R120:402 | Biology of Cancer | □ | 201/202 | |
| R120:422 | Biological Invasions | | 280 or 370 or 371 | |
| BIOL 440 | Cell Biology of Disease | △ | 340 & 355/356 | |
| BIOL 445 | Endocrinology | △ | R120:340 | |
| BIOL 447 | Cellular & Systems Neuroscience | | 201/202 | |
| BIOL 448 | Neuropathophysiology | □ | 340 | |
| R120:455 | Molecular Cell Biology | | 355 & 356 | |
| R120:456 | Virology | △□● | 356 | |
| R120:472 | Environmental Assessment | △□● | 370 or 371 | |
| BIOL 491 | Research and Independent Study | | | |
| BIOL 4912 | Research and Independent Study | | | |
| R120:493 | Seminar in Biology | | | |
| R120:494 | Seminar in Biology | | | |

39 Required Biology Credits

Current Total: _____

4 Cognate Science Courses - 23cr

| | | Prereqs | Sem | Grade |
|----------|----------------------------|---------|-----------|-------|
| CHEM 124 | General Chem Lab (1cr) | △□● | Chem 125 | |
| CHEM 125 | General Chemistry I (3cr) | △□● | Placement | |
| CHEM 126 | General Chemistry II (3cr) | △□● | Chem 125 | |

| | | | | |
|-----------|-----------------------------|-----|----------|--|
| CHEM 243 | Organic Chemistry I (3cr) | △□● | Chem 126 | |
| CHEM 244 | Organic Chemistry II (3cr) | △□● | Chem 243 | |
| CHEM 244A | Organic Chemistry Lab (2cr) | △□● | Chem 243 | |

| | | | | |
|-----------|----------------------|-----|-----------|--|
| PHYS 111 | Physics I Lab (3cr) | △□● | | |
| PHYS 111A | Physics I Lab (1cr) | △□● | | |
| PHYS 121 | Physics II (3cr) | △□● | Phys 111 | |
| PHYS 121A | Physics II Lab (1cr) | △□● | Phys 111A | |

23 Required Cognate Course Credits

Current Total: _____

5A Associated Course - 3cr

| | | Prereqs | Sem | Grade |
|----------|--------------------------------|---------|-----|-------|
| R830:101 | Principles of Psychology (3cr) | | | |

5B Associated Course - 3cr

| | | | | |
|----------|------------|--|--|--|
| BIOL 310 | COOP (3cr) | | | |
|----------|------------|--|--|--|

5C Associated Courses - 8cr

| | | | | |
|----------|-------------------------------|--|--|--|
| R120:241 | Anatomy & Physiology I (4cr) | | | |
| R120:242 | Anatomy & Physiology II (4cr) | | | |

Anatomy & Physiology I & II do not count towards the biology major, but is strongly recommended for MS Physician Assistant Program

14 Associated Course Credits

Current Total: _____

△ Fall □ Spring ● Summer

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Biology Credits: 39 Total Minimum Credits: 112

General University Requirements for Joint Biology-M.S. Physician Assistant Accelerated Majors

6 English & Cultural History GUR - 9cr

| | Course | Prereqs | Sem | Grade |
|---|---------|-----------|-----|-------|
| English Composition: Writing, Speaking, Thinking I (3cr) | HUM 101 | Placement | | |
| English Composition: Writing, Speaking, Thinking II (3cr) | HUM 102 | HUM 101 | | |
| GUR Elective: English and Cultural History ¹ (3cr) | | | | |

¹ Choice of HUM 211, HUM 212 or HIST 213; or any approved 200-level History course at Rutgers Newark.

7 Mathematics GUR - 7cr

| | Course | Prereqs | Sem | Grade |
|---|----------|-----------|-----|-------|
| Calculus I (4cr) | Math 111 | Placement | | |
| Elementary Probability & Statistics (3cr) | Math 105 | | | |

8 Computer Science GUR - 3cr

| | Course | Prereqs | Sem | Grade |
|--|----------|-----------|-----|-------|
| Programming for Bioinformatics I (3cr) | BNFO 135 | Placement | | |

9 Physical Education GUR - 2cr

| | Course | Prereqs | Sem | Grade |
|--|--------|---------|-----|-------|
| GUR Elective: Physical Education (1cr) | | | | |
| GUR Elective: Physical Education (1cr) | | | | |

10 Basic Social Sciences GUR - 3cr

| | Course | Prereqs | Sem | Grade |
|--|--------|---------|-----|-------|
| GUR Elective: Social Sciences ² (3cr) | | | | |

² Two Courses: EPS 202, ECON 201, ECON 265, ECON 266, STS 257, STS 258; or approved Social Science courses at Rutgers Newark.

11 Management GUR - 3cr

| | Course | Prereqs | Sem | Grade |
|---|--------|---------|-----|-------|
| GUR Elective: Management ³ (3cr) | | | | |

³ Management Elective: Choice of HRM 301, MGMT 390, ENTR 410 or IE 492.

12 Humanities and Social Science Upper Level GUR - 6cr

| | Course | Prereqs | Sem | Grade |
|---|--------|---------|-----|-------|
| GUR Elective: HSS Upper Level Elective ⁴ (3cr) | | | | |
| GUR Elective: HSS Upper Level Elective ⁴ (3cr) | | | | |

⁴ Two Courses: 300-level courses in COM, ENG, HIST, LIT, PHIL, STS, THTR; or approved 300-level or above HSS courses at Rutgers Newark.

13 Humanities and Social Science Senior Seminar GUR - 3cr

| | Course | Prereqs | Sem | Grade |
|---|--------|---------|-----|-------|
| GUR Elective: HSS Senior Seminar ⁵ (3cr) | | | | |

⁵ Choice of HSS 403, 404, 405, 406, 407, 408, 409, 491.

36 General University Requirement Credits

Current Total: _____

Notes and Comments: _____
