

Year 1

Fall Semester

| Course | Credit Hours |
|--|--------------|
| ENG 1301 Composition 1 | 3 |
| MAT 1302 College Algebra | 3 |
| BIO 1321 & BIO 1121 Intro to Biology & Lab | 4 |
| CHE 1315 & 1115 General Chemistry 1 & Lab | 4 |
| HIST 2322 Fundamentals Modern American History | 3 |
| ASE 1111 Academic Success Experience | 1 |

Spring Semester

| Course | Credit Hours |
|---|--------------|
| ENG 1302 Composition 2 | 3 |
| MAT 1310 Applied Mathematics | 3 |
| BIO 1322 & 1122 Introductory to Biology 2 & Lab | 4 |
| CHE 1316 & 1116 General Chemistry 2 & Lab | 4 |
| SOC 1302 Cultural Anthropology | 3 |

Total Credit Hours: 18

Total Credit Hours: 17

Year 2

Fall Semester

| Course | Credit Hours |
|---|--------------|
| ENG 23XX Sophomore Literature | 3 |
| BIO 2341 & 2141 Microbiology & Lab | 4 |
| REL 1321 World Religions | 3 |
| CHE 2316 & 2116 Organic Chemistry 1 & Lab | 4 |
| BIO 2329 Biostatistics | 3 |

Spring Semester

| Course | Credit Hours |
|---|--------------|
| ENG 3312 Writing in Sciences | 3 |
| BIO 2324 & 2124 Evolution & Ecology & Lab | 4 |
| CHE 2317 & 2117 Organic Chemistry 2 & Lab | 4 |
| HUM 2340 Humanities | 3 |
| KIN 11XX Kinesiology | 1 |
| EXS 1220 Basic Concepts of Wellness | 2 |

Total Credit Hours: 17

Total Credit Hours: 17

Summer 1 & 2: Second Year

Summer 1

| Course | Credit Hours |
|------------------------------|--------------|
| BIO 3352 Supervised Research | 3 |

Total Credit Hours: 3

Summer 2

| Course | Credit Hours |
|--------------------------|--------------|
| BIO 4351 Senior Research | 3 |

Total Credit Hours: 3

Year 3

Fall Semester

| Course | Credit Hours |
|-------------------------------------|--------------|
| BIO 3431 Molecular Genetics & Lab | 4 |
| BIO 3470 Conservation in Biology | 3 |
| CHE 4326 Biochemistry 1 | 3 |
| PHY 1401 University Physics 1 & Lab | 3 |

Spring Semester

| Course | Credit Hours |
|---------------------------------------|--------------|
| BIO 4412 Molecular Cell Biology & Lab | 3 |
| BIO 4426 Infection and Immunity | 3 |
| PHY 1402 University Physics 2 & Lab | 3 |
| ECO 2305 Economics | 3 |

Total Credit Hours: 15

Total Credit Hours: 15

M.S. in Biotechnology

Year 1

Fall Semester

| Course | Credit Hours |
|--|--------------|
| BMSC 6301 Integrative Biomedical Science CORE 1 Principles of Biochemistry | 4 |
| BMSC 6302 Integrative Biomedical Science CORE 2 Molecular Cell Biology | 4 |
| BMSC 5160 Biomedical Ethics | 1 |
| BMSC 5250 Scientific Communications | 3 |
| BMSC 5170 Techniques in Biomedical Sciences | 1 |
| BMSC Laboratory Management | 2 |

Spring Semester

| Course | Credit Hours |
|---|--------------|
| BMSC 6303 Integrative Biomedical Science CORE 3 Physiology | 3 |
| BMSC 6304 Integrative Biomedical Science CORE 4 Pharmacology | 2 |
| BMSC 6305 Integrative Biomedical Science CORE 5 Immunology and Microbiology | 3 |
| BMSC 5163 Introduction to Industry Practice | 1 |
| BMSC 5140 Seminar in Current Topics | 1 |
| BMSC 5170 Techniques in Biomedical Sciences | 1-2 |

Total Credit Hours: 15

Total Credit Hours: 11-12

Summer Year 1

Summer 1

| Course | Credit Hours |
|--|--------------|
| BMSC 5400.001 Biostatistics for Biomedical Science | 3 |
| BMSC 5900.001 Short Course in Health Disparities | 4 |

Summer 2

| Course | Credit Hours |
|---|--------------|
| MOLB 5201.001 Introductory Biochemistry | 2 |

Total Credit Hours: 7

Total Credit Hours: 2

Year 2

Fall Semester

| Course | Credit Hours |
|---|--------------|
| BMSC 5697 Laboratory Internship Practicum | 6 |

Spring Semester

| Course | Credit Hours |
|---|--------------|
| BMSC 5697 Laboratory Internship Practicum | 6 |

Total Credit Hours: 6

Total Credit Hours: 6

Summer Year 2

Summer 1

| Course | Credit Hours |
|--|--------------|
| CBAN 6440 Methods in Molecular Biology | 4 |
| BMSC Techniques in Biomedical Sciences | 3 |

| Course | Credit Hours |
|--------|--------------|
|--------|--------------|

Total Credit Hours: 6

Year 1

Fall Semester

| Course | Credit Hours |
|--|--------------|
| ENG 1301 Composition 1 | 3 |
| MAT 1302 College Algebra | 3 |
| BIO 1321 & BIO 1121 Intro to Biology & Lab | 4 |
| CHE 1315 & 1115 General Chemistry 1 & Lab | 4 |
| HIST 2322 Fundamentals Modern American History | 3 |
| ASE 1111 Academic Success Experience | 1 |

Spring Semester

| Course | Credit Hours |
|---|--------------|
| ENG 1302 Composition 2 | 3 |
| MAT 1310 Applied Mathematics | 3 |
| BIO 1322 & 1122 Introductory to Biology 2 & Lab | 4 |
| CHE 1316 & 1116 General Chemistry 2 & Lab | 4 |
| SOC 1302 Cultural Anthropology | 3 |

Total Credit Hours: 18

Total Credit Hours: 17

Year 2

Fall Semester

| Course | Credit Hours |
|---|--------------|
| ENG 23XX Sophomore Literature | 3 |
| BIO 2341 & 2141 Microbiology & Lab | 4 |
| REL 1321 World Religions | 3 |
| CHE 2316 & 2116 Organic Chemistry 1 & Lab | 4 |
| BIO 2329 Biostatistics | 3 |

Spring Semester

| Course | Credit Hours |
|---|--------------|
| ENG 3312 Writing in Sciences | 3 |
| BIO 2324 & 2124 Evolution & Ecology & Lab | 4 |
| CHE 2317 & 2117 Organic Chemistry 2 & Lab | 4 |
| HUM 2340 Humanities | 3 |
| KIN 11XX Kinesiology | 1 |
| EXS 1220 Basic Concepts of Wellness | 2 |

Total Credit Hours: 17

Total Credit Hours: 17

Summer 1 & 2: Second Year

Summer 1

| Course | Credit Hours |
|------------------------------|--------------|
| BIO 3352 Supervised Research | 3 |

Total Credit Hours: 3

Summer 2

| Course | Credit Hours |
|--------------------------|--------------|
| BIO 4351 Senior Research | 3 |

Total Credit Hours: 3

Year 3

Fall Semester

| Course | Credit Hours |
|-------------------------------------|--------------|
| BIO 3431 Molecular Genetics & Lab | 4 |
| BIO 3470 Conservation in Biology | 3 |
| CHE 4326 Biochemistry 1 | 3 |
| PHY 1401 University Physics 1 & Lab | 3 |

Spring Semester

| Course | Hours |
|---------------------------------------|-------|
| BIO 4412 Molecular Cell Biology & Lab | 3 |
| BIO 4426 Infection and Immunity | 3 |
| PHY 1402 University Physics 2 & Lab | 3 |
| ECO 2305 Economics | 3 |

Total Credit Hours: 15

Total Credit Hours: 15

M.S. in Clinical Research Management

Year 1

Fall Semester

| Course | Credit Hours |
|--|--------------|
| BMSC 6301 Integrative Biomedical Science CORE 1 Principles of Biochemistry | 3 |
| BMSC 6302 Integrative Biomedical Science CORE 2 Molecular Cell Biology | 3 |
| BMSC 6303 Integrative Biomedical Science CORE 3 Physiology | 3 |
| BMSC 5250 Scientific Communications | 3 |

Total Credit Hours: 15

Spring Semester

| Course | Credit Hours |
|---|--------------|
| BMSC 6304 Integrative Biomedical Science CORE 4 Pharmacology | 4 |
| BMSC 6305 Integrative Biomedical Science CORE 5 Immunology and Microbiology | 2 |
| BMSC 5165: Introduction to Industry Practice | 1 |
| BMSC 5312 Introduction to Clinical Research & Studies | 3 |
| BMSC 5121 Ethical, Legal, and Social issues for Responsible Clinical Research | 1 |

Total Credit Hours: 11-12

Summer Year 1

Summer 1

| Course | Credit Hours |
|--|--------------|
| BMSC 5400.001 Biostatistics for Biomedical Science | 3 |
| BMSC 5900.001 Short Course in Health Disparities | 4 |

Total Credit Hours: 7

Summer 2

| Course | Credit Hours |
|---|--------------|
| MOLB 5201.001 Introductory Biochemistry | 2 |

Total Credit Hours: 2

Year 2

Fall Semester

| Course | Credit Hours |
|---|--------------|
| BMSC 5697 Laboratory Internship Practicum | 6 |

Total Credit Hours: 6

Spring Semester

| Course | Credit Hours |
|---|--------------|
| BMSC 5697 Laboratory Internship Practicum | 6 |

Total Credit Hours: 6

Summer Year 2

Summer 1

| Course | Credit Hours |
|---|--------------|
| BMSC 5697 Laboratory Internship | 4 |
| BMSC 5697 Laboratory Internship Practicum | 3 |

Total Credit Hours: 7

Summer 2

| Course | Credit Hours |
|---------------------------------------|--------------|
| BMSC 5965 IRB Management and Function | 6 |

Total Credit Hours: 6

Year 1

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|--|--------------|
| ENG 1301 Composition 1 | 3 |
| MAT 1302 College Algebra | 3 |
| BIO 1321 & BIO 1121 Intro to Biology & Lab | 4 |
| CHE 1315 & 1115 General Chemistry 1 & Lab | 4 |
| HIST 2322 Fundamentals Modern American History | 3 |
| ASE 1111 Academic Success Experience | 1 |

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|---|--------------|
| ENG 1302 Composition 2 | 3 |
| MAT 1310 Applied Mathematics | 3 |
| BIO 1322 & 1122 Introductory to Biology 2 & Lab | 4 |
| CHE 1316 & 1116 General Chemistry 2 & Lab | 4 |
| SOC 1302 Cultural Anthropology | 3 |

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| ENG 23XX Sophomore Literature | 3 |
| BIO 2341 & 2141 Microbiology & Lab | 4 |
| REL 1321 World Religions | 3 |
| CHE 2316 & 2116 Organic Chemistry 1 & Lab | 4 |
| BIO 2329 Biostatistics | 3 |

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| Course | Credit Hours |
|---|--------------|
| ENG 3312 Writing in Sciences | 3 |
| BIO 2324 & 2124 Evolution & Ecology & Lab | 4 |
| CHE 2317 & 2117 Organic Chemistry 2 & Lab | 4 |
| HUM 2340 Humanities | 3 |
| KIN 11XX Kinesiology | 1 |
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Summer 1 & 2: Second Year

Summer 1

| Course | Credit Hours |
|------------------------------|--------------|
| BIO 3352 Supervised Research | 3 |

Total Credit Hours: 3

Summer 2

| Course | Credit Hours |
|--------------------------|--------------|
| BIO 4351 Senior Research | 3 |

Total Credit Hours: 3

Year 3

Fall Semester

| Course | Credit Hours |
|-------------------------------------|--------------|
| BIO 3431 Molecular Genetics & Lab | 4 |
| BIO 3470 Conservation in Biology | 3 |
| CHE 4326 Biochemistry 1 | 3 |
| PHY 1401 University Physics 1 & Lab | 3 |

Spring Semester

| Course | Credit Hours |
|---------------------------------------|--------------|
| BIO 4412 Molecular Cell Biology & Lab | 3 |
| BIO 4426 Infection and Immunity | 3 |
| PHY 1402 University Physics 2 & Lab | 3 |
| ECO 2305 Economics | 3 |

Total Credit Hours: 15

Total Credit Hours: 15

M.S. in Forensic Genetics

Year 1

Fall Semester

| Course | Credit Hours |
|--|--------------|
| BMSC 6301 Integrative Biomedical Science CORE 1 Principles of Biochemistry | 4 |
| BMSC 6302 Integrative Biomedical Science CORE 2 Molecular Cell Biology | 4 |
| BMSC 5160 Biomedical Ethics | 1 |
| FGEN 5305 Into/Molecular Laboratory Methods | 3 |
| FGEN 5101 Forensic Hair Analysis | 1 |
| FGEN 5103 Seminar in Current Topics | 1 |

Total Credit Hours: 14

Spring Semester

| Course | Credit Hours |
|---|--------------|
| BMSC 6305 Integrative Biomedical Science CORE 4 Immunology and Microbiology | 3 |
| FGEN 5103 Seminar in Current Topics | 1 |
| FGEN 5304 Forensic Anthropology | 3 |
| FGEN 5306 Basic Methods in Forensic Molecular Genetics | 3 |
| | 3 |

Total Credit Hours: 13

Summer Year 1

Summer 1

| Course | Credit Hours |
|---|--------------|
| FGEN 5407 Adv Methods/Forensic Molecular Genetics | 4 |

Total Credit Hours: 4

Summer 2

| Course | Credit Hours |
|--|--------------|
| BMSC 5400 Biostatistics for Biomedical Science | 4 |

Total Credit Hours: 4

Year 2

Fall Semester

| Course | Credit Hours |
|--|--------------|
| FGEN 5400 Biological Evidence Evaluation | 4 |
| FGEN 5401 Forensic Genetic Data Analysis | 3 |
| FGEN 5103 Seminar in Current Topics | 1 |
| FGEN 5300 Expert Testimony | 3 |
| FGEN 5102 Blood Spatter Analysis | 1 |

Total Credit Hours: 12

Spring Semester

| Course | Credit Hours |
|---|--------------|
| FGEN 5095 Oral Qualifying Exam – MOOT COURT | 0 |
| BMSC 5998 Individual Research | 3 |
| BMSC 5395 Thesis | 3 |

Total Credit Hours: 6