Accelerated dual degree program: B.S. in Biophysics/M.D. at Cooper Medical School of Rowan University - sample 4-year sequence

| First Semester (Fall) | Credit | Second Semester (Spring) | Credit |
|--|---|---|---|
| CHEM 06.100 Chemistry I (Scientific Literacy) | 4 | CHEM 06.101 Chemistry II | 4 |
| PHYS 00.220 Introductory Mechanics | 4 | PHYS 00.221 Intro Electricity/Magnetism or PHYS 00.222 Introductory TFWO | 4 |
| MATH 01.130 Calculus I | 4 | MATH 01.131 Calculus II | 4 |
| (Quantitative Literacy) | - | | |
| COMP 01.111 College Comp. I | 3 | COMP 01.112 College Comp. II | 3 |
| PHYS 00.130 Building Momentum (RS) | 1 | | |
| Term Total Credit | 16 | Term Total Credit | 15 |
| Third Semester (Fall) | Credit | Fourth Semester (Spring) | Credit |
| CHEM 07.200 Organic Chemistry I | 4 | CHEM 07.203 Organic Chemistry II for BMS | 4 |
| MCB 01.101 Foundations in Biology for | 4 | MCB 01.102 Foundations in Biology for | 4 |
| Biomedical Sciences I | 4 | Biomedical Sciences II | 4 |
| PHYS 00.221 Intro Electricity/Magnetism | 4 | DHVS 00 200 Modern Dhysics | 4 |
| or PHYS 00.222 Introductory TFWO | | PHYS 00.300 Modern Physics | |
| MATH 01.230 Calculus III | 4 | PHYS 00.330 Mathematical Methods for Physics | 4 |
| Term Total Credit | 16 | Term Total Credit | 16 |
| | | | |
| Fifth Semester (Fall) | Credit | Sixth Semester (Spring) | Credit |
| Fifth Semester (Fall) CHEM 07.348 Biochemistry | Credit 4 | Sixth Semester (Spring) PHYS 00.360 Molecular Biophysics* | Credit 4 |
| . , | | <u> </u> | |
| CHEM 07.348 Biochemistry | 4 | PHYS 00.360 Molecular Biophysics* | 4 |
| CHEM 07.348 Biochemistry TBS 01.135 Biomedical Technologies I* Free Elective: PHIL 09.369 Philosophy of Science is recommended | 3 | PHYS 00.360 Molecular Biophysics* PHYS 00.375 Radiation Physics* Free Elective (Artistic Literacy/Global | 4 3 |
| CHEM 07.348 Biochemistry TBS 01.135 Biomedical Technologies I* Free Elective: PHIL 09.369 Philosophy of Science is recommended (WI & Humanistic Literacy) PHYS 00.371 Biophysics: Fundamentals | 3 | PHYS 00.360 Molecular Biophysics* PHYS 00.375 Radiation Physics* Free Elective (Artistic Literacy/Global Literacy) Free Elective (Artistic Literacy/Global | 3 |
| CHEM 07.348 Biochemistry TBS 01.135 Biomedical Technologies I* Free Elective: PHIL 09.369 Philosophy of Science is recommended (WI & Humanistic Literacy) PHYS 00.371 Biophysics: Fundamentals of Biomaterials* | 3 3 | PHYS 00.360 Molecular Biophysics* PHYS 00.375 Radiation Physics* Free Elective (Artistic Literacy/Global Literacy) Free Elective (Artistic Literacy/Global Literacy) | 3 3 |
| CHEM 07.348 Biochemistry TBS 01.135 Biomedical Technologies I* Free Elective: PHIL 09.369 Philosophy of Science is recommended (WI & Humanistic Literacy) PHYS 00.371 Biophysics: Fundamentals of Biomaterials* | 3 3 | PHYS 00.360 Molecular Biophysics* PHYS 00.375 Radiation Physics* Free Elective (Artistic Literacy/Global Literacy) Free Elective (Artistic Literacy/Global Literacy) PHYS 00.451 Biophysics Research I | 4 3 3 3 |
| CHEM 07.348 Biochemistry TBS 01.135 Biomedical Technologies I* Free Elective: PHIL 09.369 Philosophy of Science is recommended (WI & Humanistic Literacy) PHYS 00.371 Biophysics: Fundamentals of Biomaterials* CMS 04.205 Public Speaking Term Total Credit | 3 3 3 3 | PHYS 00.360 Molecular Biophysics* PHYS 00.375 Radiation Physics* Free Elective (Artistic Literacy/Global Literacy) Free Elective (Artistic Literacy/Global Literacy) PHYS 00.451 Biophysics Research I PHYS 00.452 Biophysics Research II Term Total Credit | 3 3 2 2 |
| CHEM 07.348 Biochemistry TBS 01.135 Biomedical Technologies I* Free Elective: PHIL 09.369 Philosophy of Science is recommended (WI & Humanistic Literacy) PHYS 00.371 Biophysics: Fundamentals of Biomaterials* CMS 04.205 Public Speaking | 3 3 3 3 | PHYS 00.360 Molecular Biophysics* PHYS 00.375 Radiation Physics* Free Elective (Artistic Literacy/Global Literacy) Free Elective (Artistic Literacy/Global Literacy) PHYS 00.451 Biophysics Research I PHYS 00.452 Biophysics Research II | 3 3 3 2 2 17 |
| CHEM 07.348 Biochemistry TBS 01.135 Biomedical Technologies I* Free Elective: PHIL 09.369 Philosophy of Science is recommended (WI & Humanistic Literacy) PHYS 00.371 Biophysics: Fundamentals of Biomaterials* CMS 04.205 Public Speaking Term Total Credit Seventh Semester (Fall) | 3 3 3 3 16 Credit | PHYS 00.360 Molecular Biophysics* PHYS 00.375 Radiation Physics* Free Elective (Artistic Literacy/Global Literacy) Free Elective (Artistic Literacy/Global Literacy) PHYS 00.451 Biophysics Research I PHYS 00.452 Biophysics Research II Term Total Credit Eighth Semester (at GSBS)* | 4 3 3 3 2 2 17 Credit |
| CHEM 07.348 Biochemistry TBS 01.135 Biomedical Technologies I* Free Elective: PHIL 09.369 Philosophy of Science is recommended (WI & Humanistic Literacy) PHYS 00.371 Biophysics: Fundamentals of Biomaterials* CMS 04.205 Public Speaking Term Total Credit Seventh Semester (Fall) Fundamentals | 4 3 3 3 3 16 Credit 12 | PHYS 00.360 Molecular Biophysics* PHYS 00.375 Radiation Physics* Free Elective (Artistic Literacy/Global Literacy) Free Elective (Artistic Literacy/Global Literacy) PHYS 00.451 Biophysics Research I PHYS 00.452 Biophysics Research II Term Total Credit Eighth Semester (at GSBS)* Lifestages Infectious Diseases Hematology-Oncology | 4 3 3 3 2 2 17 Credit 3 |
| CHEM 07.348 Biochemistry TBS 01.135 Biomedical Technologies I* Free Elective: PHIL 09.369 Philosophy of Science is recommended (WI & Humanistic Literacy) PHYS 00.371 Biophysics: Fundamentals of Biomaterials* CMS 04.205 Public Speaking Term Total Credit Seventh Semester (Fall) Fundamentals Scholar's Workshop | 4 3 3 3 3 16 Credit 12 2 | PHYS 00.360 Molecular Biophysics* PHYS 00.375 Radiation Physics* Free Elective (Artistic Literacy/Global Literacy) Free Elective (Artistic Literacy/Global Literacy) PHYS 00.451 Biophysics Research I PHYS 00.452 Biophysics Research II Term Total Credit Eighth Semester (at GSBS)* Lifestages Infectious Diseases | 4 3 3 3 2 2 17 Credit 3 3 |
| CHEM 07.348 Biochemistry TBS 01.135 Biomedical Technologies I* Free Elective: PHIL 09.369 Philosophy of Science is recommended (WI & Humanistic Literacy) PHYS 00.371 Biophysics: Fundamentals of Biomaterials* CMS 04.205 Public Speaking Term Total Credit Seventh Semester (Fall) Fundamentals Scholar's Workshop Foundations of Medical Practice | 4 3 3 3 3 16 Credit 12 2 3 | PHYS 00.360 Molecular Biophysics* PHYS 00.375 Radiation Physics* Free Elective (Artistic Literacy/Global Literacy) Free Elective (Artistic Literacy/Global Literacy) PHYS 00.451 Biophysics Research I PHYS 00.452 Biophysics Research II Term Total Credit Eighth Semester (at GSBS)* Lifestages Infectious Diseases Hematology-Oncology | 4 3 3 3 2 2 17 Credit 3 3 3 |
| CHEM 07.348 Biochemistry TBS 01.135 Biomedical Technologies I* Free Elective: PHIL 09.369 Philosophy of Science is recommended (WI & Humanistic Literacy) PHYS 00.371 Biophysics: Fundamentals of Biomaterials* CMS 04.205 Public Speaking Term Total Credit Seventh Semester (Fall) Fundamentals Scholar's Workshop Foundations of Medical Practice Ambulatory Clerkship | 4 3 3 3 3 16 Credit 12 2 3 3 | PHYS 00.360 Molecular Biophysics* PHYS 00.375 Radiation Physics* Free Elective (Artistic Literacy/Global Literacy) Free Elective (Artistic Literacy/Global Literacy) PHYS 00.451 Biophysics Research I PHYS 00.452 Biophysics Research II Term Total Credit Eighth Semester (at GSBS)* Lifestages Infectious Diseases Hematology-Oncology Skin-Musculoskeletal Scholar's Workshop Foundations of Medical Practice | 3 3 2 2 17 Credit 3 3 3 6 2 3 |
| CHEM 07.348 Biochemistry TBS 01.135 Biomedical Technologies I* Free Elective: PHIL 09.369 Philosophy of Science is recommended (WI & Humanistic Literacy) PHYS 00.371 Biophysics: Fundamentals of Biomaterials* CMS 04.205 Public Speaking Term Total Credit Seventh Semester (Fall) Fundamentals Scholar's Workshop Foundations of Medical Practice Ambulatory Clerkship Weeks on Wards | 4 3 3 3 3 16 Credit 12 2 3 3 1 | PHYS 00.360 Molecular Biophysics* PHYS 00.375 Radiation Physics* Free Elective (Artistic Literacy/Global Literacy) Free Elective (Artistic Literacy/Global Literacy) PHYS 00.451 Biophysics Research I PHYS 00.452 Biophysics Research II Term Total Credit Eighth Semester (at GSBS)* Lifestages Infectious Diseases Hematology-Oncology Skin-Musculoskeletal Scholar's Workshop | 3 3 2 2 17 Credit 3 3 3 6 2 |

^{*} indicates a course that is typically only offered in the indicated Fall or Spring term

This document is intended as a guide only. Please consult with your academic advisors to fully plan your course sequence.