

B.S. in BIOCHEMISTRY AND MOLECULAR BIOLOGY GRADUATION CHECKLIST

Students starting AY 2023-2024

STUDENT:

ADVISOR:

REQUIRED COURSEWORK:

BIO111– General Biology I:

BIO112– General Biology II:

BIO205– Cell and Molecular Biology:

BIO409– Biochemistry:

Approved BIO200–400:

Approved BIO300–400:

CHE120– Chemical Principles of Organic Molecules:

CHE140– Reactions of Organic Molecules:

CHE220– Quantitative Chemical Analysis:

CHE303– Chemistry of Biological Compounds:

Approved CHE200–400:

CHE 392 – CHE Seminar:

BMB SCE – Senior Capstone Experience:

MAT 201 – Differential Calculus or MAT106/MAT107

MAT 202 – Integral Calculus:

*PHY 101 – College Physics I:

*PHY 102 – College Physics II:

*Students may also take PHY 111 and PHY 112.

ONE OF THE FOLLOWING:

CHE 305 – Chemical Thermodynamics and Kinetics:

CHE 306 – Quantum Chemistry and Spectroscopy:

DISTRIBUTION COURSES:

SOCIAL SCIENCE

Course 1:

Course 2:

Course 3:

HUMANITIES/FINE ARTS

Course 1:

Course 2:

Course 3:

FOREIGN LANGUAGE

Course 1:

Course 2:

WRITING COURSES:

W1:

W2:

W3:

W4:

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Approved Biology Electives (One must be 300-400 level)

- BIO 203 Microbiology
- BIO 209 Genetics
- BIO 294 Stem Cell Biology
- BIO 302 Developmental Biology
- BIO 314 Biotech & Molecular Bio
- BIO 394 Endocrinology
- BIO 350: Toxicology
- BIO 404 Immunology
- BIO 394, 494 Approved Special Topics in Biology

Approved Chemistry Electives

- CHE 210 Environmental Chemistry
- CHE 240 Chemistry of the Elements
- CHE 204 Greener Art through Greener Chemistry
- CHE 305 Chemical Thermodynamics and Kinetics
- CHE 306 Quantum Chemistry and Spectroscopy
- CHE 310 Greener and Sustainable Chemistry
- CHE 314 Instrumental Methods of Analysis
- CHE 320 Introduction to Medicinal Chemistry
- CHE 340 Organic Mechanisms and Synthesis
- CHE 403 Advanced Organic Chemistry
- CHE 405 Biophysical Methods
- CHE 410 Fundamental of Materials Science
- CHE 394, 494 Approved Special Topics in Chemistry
- Approved Research Experience