

BCB Course Checklist

I. Required Pre-Requisites

Biological Sciences

_____ BSCI 1510 & 1510 L (Introduction to Biological Sciences) Fall (1st or 2nd)
_____ BSCI 1511 & 1511L or 1512L Spring

Chemistry

_____ CHEM 2221 & 2221L (Organic Chemistry) *PREQ: CHEM 1602* Fall (1st or 2nd)
_____ CHEM 2222 & 2222L Spring

Physics

_____ PHYS 1501 or 1601 and 1501L or 1601L *PREQ: MATH 1300* Fall (3rd)
_____ PHYS 1502 or 1602 and 1502L or 1602L Spring
*1600 courses are engineering

Mathematics

_____ MATH 1200 or 1300 (Single Variable Calculus) Fall (1st or 2nd)
_____ MATH 1201 or 1301 Spring

II. Foundational Classes for all BCB students

_____ BSCI 2520 Biochemistry [3] F / S (3rd)
PREQ: CHEM 2221 or 2221 and BSCI 1510 or CHBE 2150

_____ CHEM 3310 Biophysical Chemistry [3] Spring (3rd/4th)
PREQ: PHYS 1501 or 1601 and MATH 1201 or 1301

_____ CHEM 3710 Bioorganic Chemistry [3] Fall (3rd /4th)
PREQ: CHEM 2222 or 2212 (BSCI 1510 advised)

_____ BCB 4965 Advanced Integrated Lab [3] Fall (4th)
PRE or CoREQ: CHEM 3710 / BSCI 2520
Two semesters of BCB 4999 Honors can be used to replace BCB 4965

III. General Electives [6 credits]

Course #1 _____

Course #2 _____

(a **second** semester of BCB 3201 can be used to replace one General Elective)

IV. Biochemistry Track

REQUIRED: [6]

_____ BSCI 4265 Biochemistry II [3] <i>PREQ: CHEM 2221 & BSCI 2520</i>	Spring (3 rd or 4 th)
_____ BCB 3201 Independent Laboratory Research [2] <i>PREQ: CHEM 1602 & BSCI 1510</i>	F/S

CHOOSE 3 [9]

_____ BSCI 2201 Introduction to Cell Biology [3] <i>PREQ: CHEM 2221 & BSCI 1510</i>	Spring
_____ BSCI 2210 Principles of Genetics [3] <i>PREQ: BSCI 1511</i>	F/S
_____ CHEM 2100 Analytical Chemistry [3] (lab not required) <i>Advised: CHEM 1602</i>	Fall (2 nd or 3 rd)
_____ CHEM 4720 Drug Design & Development <i>PREQ: BSCI 2520 or CHEM 3710</i>	Spring (3 rd or 4 th)
_____ BCB 4320 Advanced Chemical Biology [3] <i>PREQ: CHEM 3710</i>	Spring (4 th)

V. Chemical Biology Track

REQUIRED: [5]

_____ BCB 2101 Chemical Biology Focus [1] <i>PREQ: CHEM 2221 & BSCI 1510</i>	Fall (3 rd or 4 th) <i>offered odd # years</i>
_____ CHEM 2100 Analytical Chemistry [3] <i>Advised: CHEM 1602</i> _____ CHEM 2100L Analytical Chemistry Lab [1]	Fall (2 nd or 3 rd)

CHOOSE 2 [6]

_____ BCB 4320 Advanced Chemical Biology [3]	Spring (4 th)
_____ BSCI 4265 Biochemistry II [3]	Spring (3 rd or 4 th)
_____ CHEM 4720 Drug Design & Development [3]	Spring (3 rd or 4 th)

CHOOSE 1 [3]

_____ BCB 4966 Advanced Integrated Lab [3] <i>PREQ: BCB 4965 or instructor permission</i>	Spring (4 th)
_____ BCB 3201 Independent Laboratory Research [3]	F/S