



Cannabis Biology and Chemistry Degree Program

College of Science, Technology, Engineering, and Mathematics

Colorado State University-Pueblo

Natural Products Concentration

***Designates new courses**

Core Courses (46 credits)

BIOL 181/181L – College Biology I/Lab (4 credits)
BIOL 182/182L – College Biology II/Lab (4 credits)
BIOL 201/201L – Botany/Lab (4 credits)
BIOL 465 – Environmental Toxicology (3 credits)
CHEM 121/L – General Chemistry I/Lab (5 credits)
CHEM 122/L – General Chemistry II/Lab (5 credits)
CHEM 301/L – Organic Chemistry I/Lab (5 credits)
CHEM 302/L – Organic Chemistry II/Lab (5 credits)
CHEM 311 – Intro to Biochemistry (3 credits)

CBC 413/L* -- Cannabis Physiology and Growth (4 credits)

CBC 463* – Medicinal Chemistry and Pharmacology (3 credits)

CBC 493* – Seminar (1 credit)

Other Required Courses (11 credits)

BIOL 171 – First Year Seminar (1 credit)
BIOL 350 -- Mendelian and Pop Genetics (2 credits)
BIOL 351 – Molecular Biology and Genetics (2 credits)
BIOL 422 – Neurobiology (3 credits)

CBC 401* -- Medicinal Plant Biochemistry (3 credits)

Advisor Approved Electives (9-11 credits) At least 6 upper division credits

Support Courses (10-13 credits)

MATH 126 – Calculus and Analytical Geometry I (5 credits) or
MATH 221 – Applied Calculus: An Intuitive Approach (4 credits)
PHYS 201 -- Principles of Physics I (3 credits) or PHYS 221 –
General Physics I (4 credits)
PHYS 202 – Principles of Physics II (3 credits) or PHYS 222 –
General Physics II (4 credits)

General Education Courses (24 credits)

ENG 101 – English Composition I (3 credits)
ENG 102 – English Composition II (3 credits)
History -- 1 course (3 credits)
Humanities – 3 courses (9 credits)
Social Sciences – 2 courses (6 credits)

General Electives (15-19 credits) Students are encouraged to take other courses relevant to the subject such as PS223 Criminal Law or SOC 203 Criminal Justice System

Total Credit Hours - 120 credits

Analytical Concentration

***Designates new courses**

Core Courses (46 credits)

BIOL 181/181L – College Biology I/Lab (4 credits)
BIOL 182/182L – College Biology II/Lab (4 credits)
BIOL 201/201L – Botany/Lab (4 credits)
BIOL 465 – Environmental Toxicology (3 credits)
CHEM 121/L – General Chemistry I/Lab (5 credits)
CHEM 122/L – General Chemistry II/Lab (5 credits)
CHEM 301/L – Organic Chemistry I/Lab (5 credits)
CHEM 302/L – Organic Chemistry II/Lab (5 credits)
CHEM 311 – Intro to Biochemistry (3 credits)

CBC 413/L* -- Cannabis Physiology and Growth (4 credits)

CBC 463* – Medicinal Chemistry and Pharmacology (3 credits)

CBC 493* – Seminar (1 credit)

Other Required Courses (18 credits)

CHEM 170/370 – Academic Orientation/Enrichment (1 credit)
CHEM 317/L – Quantitative Analysis/Lab (5 credits)
CHEM 322 – Physical Chemistry II (3 credits)
CHEM 419/L – Instrumental Analysis/Lab (5 credits)

CBC 422/L* -- Natural Products Extraction and Analysis/Lab (4 credits)

Advisor Approved Electives (5-7 credits)

Support Courses (16-18 credits)

MATH 126 – Calculus and Analytical Geometry I (5 credits)
MATH 224 – Calculus and Analytical Geometry II (5 credits)
PHYS 201 -- Principles of Physics I (3 credits) or PHYS 221 –
General
Physics I (4 credits)
PHYS 202 – Principles of Physics II (3 credits) or PHYS 222 –
General Physics II (4 credits)

General Education Courses (24 credits)

ENG 101 – English Composition I (3 credits)
ENG 102 – English Composition II (3 credits)
History -- 1 course (3 credits)
Humanities – 3 courses (9 credits)
Social Sciences – 2 courses (6 credits)

General Electives (7-11 credits) Students are encouraged to take other courses relevant to the subject such as PS223 Criminal Law or SOC 203 Criminal Justice System

Total Credit Hours - 120 Credits