

ADVANCED BIOCHEMISTRY ELECTIVES *or* POLYMERS & COATINGS CONCENTRATION

Select either the advanced electives or the concentration.

Advanced Biochemistry Electives12

Select 12 units if not declaring the Polymers & Coatings concentration. At least one course must be lecture and two courses must be from List A.

List A (select at least 2 courses)

- CHEM 252 Laboratory Glassblowing (1)
- CHEM 341 Environmental Chemistry: Water Pollution (3)
- CHEM 349 Chemical Warfare (4)
- CHEM 357 Physical Chemistry III Laboratory (1)
- CHEM 377 Chemistry of Drugs and Poisons (3)
- ¹CHEM 400 Special Problems (1-3)
- ²CHEM 401 Adv Undergraduate Research (1-3) *CR/NC*
- CHEM 405 Advanced Physical Chemistry (3)
- CHEM 419 Bioorganic Chemistry (3)
- CHEM 420 Advanced Organic Chemistry-Synthesis (3)
- CHEM 439 Instrumental Analysis (5)
- BIO/CHEM 441 Bioinformatics Applications (4)
- CHEM 444 Polymers and Coatings I (3)
- CHEM 445 Polymers and Coatings II (3)
- CHEM 446 Surface Chemistry of Materials (3)
- CHEM 447 Polymers and Coatings Laboratory I (2)
- CHEM 448 Polymers and Coatings Laboratory II (2)
- CHEM 449 Internship in Polymers and Coatings (2)
- CHEM 458 Instrumental Org Qual Anal (3)
- CHEM 463 Senior Project – Honors Research (2)
- CHEM 465 College Teaching Practicum (1-2)
- CHEM 470 Selected Advanced Topics (1-3)
- CHEM 474 Protein Techniques Laboratory (2)
- CHEM 477 Biochemical Pharmacology (3)
- CHEM 478 Pharmaceutical Development (3)
- CHEM 481 Inorganic Chemistry (3)
- CHEM 484 Inorganic Chemistry Laboratory (2)
- ¹CHEM 485 Cooperative Education Experience (6)
- ¹CHEM 495 Cooperative Educ. Exp. (12)
- CHEM 528 Nutritional Biochemistry (3)
- BIO/PSC 424 Org & Teaching of Phys Sci (4)
- SCM 451 Ethics in the Sciences (3)

List B

- BIO 361 Principles of Physiology (4)
- BIO 405 Developmental Biology (5)
- BIO 432 Vertebrate/Human Anatomy & Physiology (5)
- BIO 452 Cell Biology (4)
- MCRO 402 General Virology (4)
- MCRO 423 Medical Microbiology (5)
- MCRO 424 Microbial Physiology (5)
- ZOO 422 Functional Histology (4)

Polymers and Coatings Concentration

MATE 210 Materials Engineering	3
CHEM 444 Polymers and Coatings I.....	3
CHEM 445 Polymers and Coatings II	3
CHEM 446 Surface Chemistry of Materials	3
CHEM 447 Polymers and Coatings Lab I.....	2
CHEM 448 Polymers and Coatings Lab II	2
CHEM 449 Internship in Polymers and Coatings....	2
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¹ No more than 2 units may apply to approved advanced biochemistry electives.

² No more than 4 units may apply to approved advanced biochemistry electives.