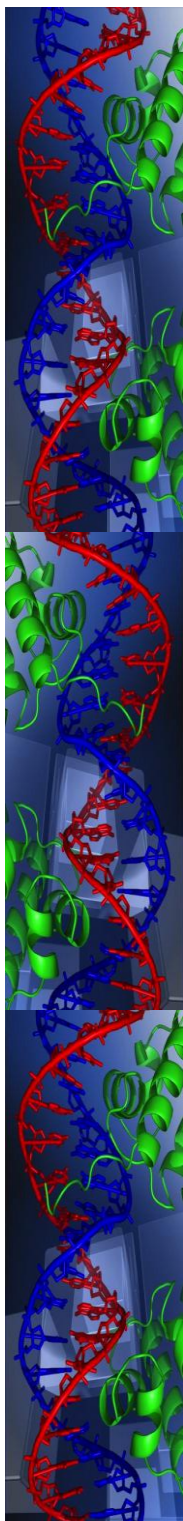




# Biotechnology Certificate Programs



## Biotech I: Lab Assistant

### Skills Certificate (10-15 units)

- BIOL 190 F: Intro to Biotech (3)
- BIOL 190L F: Intro to Biotech Lab (1)
- BIOL 191 F: Biotech A: Basic Laboratory Skills (4)
- CHEM 101 F: Chem for Allied Health Science (5)  
Or CHEM 107 F: Prep for General Chemistry (5)  
Or Chemistry Assessment (80% score)

**Careers: Laboratory, Fermentation,  
or Manufacturing Assistant:**  
**\$9 - \$14 / Hr**



## Biotech II: Biomanufacturing

### Technician Certificate (11 units)

- BIOL 192 F: Biotech B: Protein Biochemistry (4)
- BIOL 194 F: Quality and Regulatory Compliance  
in the Biosciences (2)
- CHEM 201A F: Biochemistry for Allied Health Science (5)  
Or CHEM 111A F: General Chemistry I (5)

**Careers: Manufacturing Operator;  
Production Or Purification Assistant:**  
**\$11 - \$25 / Hr**



## Biotech IIIA: Laboratory Technician Certificate

(13 - 16 Units)

- BIOL 193 F: Biotech C: Molecular Biology (4)
- BIOL 196: Tissue Culture Methods (2)
- Electives (Choose two courses):  
BIOL 109 F: Genetics in Society (3)  
BIOL 272 F: Cellular and Molecular Biology (4)  
MICR 220 F: Medical Microbiology (4)  
MICR 262 F: General Microbiology (5)  
CHEM 111B F: General Chemistry II (5)

**Careers: Cell Lab Operator; Aseptic  
Fill Assistant; Manufacturing  
Technician: \$13 - \$26 / Hr**

## Biotech IIIB: R & D Technician Certificate

(Pending) (12 - 14 units)

- BIOL 193 F: Biotech C: Molecular Biology (4)
- BIOL 196: Tissue Culture Methods (2)
- BIOL 293: Molecular Bioscience Seminars (1)
- BIOL 294: Biology Research Skills (3)
- BIOL 295: STEM Industry Tour Internship (2)
- BIOL 297: Biosciences Internship (2)

**Careers: Process Development  
Associate; R&D Technician:  
\$13 - \$26 / Hr**

For more information: [OCBiotechEducation.org](http://OCBiotechEducation.org).

Contact faculty: Spiros Dimitratos ([sdimitratos@fullcoll.edu](mailto:sdimitratos@fullcoll.edu)),  
Kim Rosales ([krosales@fullcoll.edu](mailto:krosales@fullcoll.edu)), Jo Wu ([jwu@fullcoll.edu](mailto:jwu@fullcoll.edu))



# Biotechnology Courses 2017 – 2018

Summer  
2017

June 12-  
July 20

**BIOL 190: Intro to Biotechnology Lecture (3) – Hybrid, Rosales**

MTWR 11:45 am – 1:00 pm

**BIOL 190L: Intro to Biotechnology Lab (1) – Rosales**

MTWR 1:30 pm – 3:55 pm

**Bio 109: Genetics and Biotechnology (3) – Online, Wu**

Fall  
2017

Aug 28 –  
Dec 15

**BIOL 190: Intro to Biotechnology Lecture (3) – Hybrid, Rosales**

W 3:30 – 4:55 pm

**BIOL 190L: Intro to Biotechnology Lab (1) - Rosales**

M 3:30 – 6:40 pm

**BIOL 191: Biotech A: Basic Lab Skills (4) - Dimitratos**

M 7:00 – 10:10 pm, W 5:20 – 8:30 pm

**BIOL 192 F: Biotech B: Protein Biochemistry (4) - Dimitratos**

TR 1:20 – 4:30 pm

**Bio 109: Genetics and Biotechnology Lecture (3) – Online, Wu**



Spring  
2018

Jan 29–  
May 25

**BIOL 190: Intro to Biotechnology Lecture (3) – Hybrid, Rosales**

**BIOL 190L: Intro to Biotechnology Lab (1) - Rosales**

**BIOL 191: Biotech A: Basic Lab Skills (4) - Dimitratos**

**BIOL 193 F: Biotech C: Molecular Biology (4) - Rosales**

**Bio 109: Genetics and Biotechnology Lecture (3) – Online, Wu**



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