



**B.S. in Biomanufacturing  
Upper – Division Coursework  
Moorpark College**

<b>A.S. in Biotechnology or equivalent (60 + College Units &amp; Prerequisites complete) 2.0 GPA</b>		
<b>B.S. in Biomanufacturing Curriculum</b>		
<b>Fall – Semester #1</b>		
<b>BIOT M301</b>	Biomanufacturing Process Sciences and Engineering Principles	5
<b>BIOT M307</b>	Advanced Topics in Quality Assurance and Regulatory Affairs	4
<b>ENGL M300</b>	Technical Writing	3
<b>GEN ED</b>	GE Certification Courses as needed	
	Units/Hours	12
<b>Spring – Semester #2</b>		
<b>BIOT M302</b>	Design of Experiments for Biomanufacturing	4
<b>BIOT M303</b>	Design of Biomanufacturing Facilities, Critical Utilities, Processes, and Equipment	4
<b>BIOT M304</b>	Bioprocess Monitoring and Control	5
<b>GEN ED</b>	GE Certification Courses as needed	
	Units/Hours	13
<b>Fall – Semester #3</b>		
<b>BIOT M405</b>	Cell and Gene Therapy Manufacturing Technologies	3
<b>BIOT M406</b>	Supply Chain and Enterprise Resource Planning	3
<b>BIOT M408</b>	Six Sigma and Lean Manufacturing	4
<b>PHIL M400</b>	Ethics in the Age of Emerging Technology	3
<b>GEN ED</b>	GE Certification Courses as needed	
	Units/Hours	13
<b>Spring – Semester #4</b>		
<b>BIOT M409</b>	Methods in Quality Improvements, Investigations, and Audits	4
<b>BIOT M410</b>	Emerging Trends in Biomanufacturing Quality	3
<b>BUS M400</b>	Project Management	3
<b>GEN ED</b>	GE Certification Courses as needed	
	Units/Hours	10
	Total Upper – Division Units/Hours	48



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## Sample Schedule: Year 1

### SEMESTER 1 – FALL 2024

TIME	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
8:00 AM – 9:00 AM					
9:00 AM – 10:00 AM		BIOT 307 Quality Assurance & Regulations 9am – 10:50am		BIOT 307 Quality Assurance & Regulations 9am – 10:50am	
10:00 AM – 11:00 AM					
11:00 AM – 12:00 PM		BIOT 301 Biomanufacturing Processing Science 11am – 12:15pm		BIOT 301 Biomanufacturing Processing Science 11am – 12:15pm	
12:00 PM – 1:00 PM					
1:00 PM – 2:00 PM		BIOT 301L Lab 1pm – 3:50pm		BIOT 301L Lab 1pm – 3:50pm	
2:00 PM – 3:00 PM					
3:00 PM – 4:00 PM					
4:00 PM – 5:00 PM					
ONLINE	ENGL 300 Technical Writing <i>Online</i>				

### SEMESTER 2 – SPRING 2025

TIME	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
8:00 AM – 9:00 AM	BIOT 304 Bioprocessing, Monitoring & Control 8am – 9:15am	BIOT 302 Design of Experiments 8am – 9:15am	BIOT 304 Bioprocessing, Monitoring & Control 8am – 9:15am	BIOT 302 Design of Experiments 8am – 9:15am	
9:00 AM – 10:00 AM	BIOT 304L Lab 9:30am – 12:20pm	BIOT 302L Lab 9:30am – 12:20pm	BIOT 304L Lab 9:30am – 12:20pm		
10:00 AM – 11:00 AM					
11:00 AM – 12:00 PM					
12:00 PM – 1:00 PM					
1:00 PM – 2:00 PM		BIOT 303 Design of Facilities, Utilities, & Equipment 1pm – 2:50pm		BIOT 303 Design of Facilities, Utilities, & Equipment 1pm – 2:50pm	
2:00 PM – 3:00 PM					
3:00 PM – 4:00 PM					



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## Sample Schedule: Year 2

### SEMESTER 3 – Fall 2025

TIME	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
8:00 AM – 9:00 AM					
9:00 AM – 10:00 AM	BIOT 408 Six Sigma & Lean Manufacturing 9:00am – 10:15am		BIOT 408 Six Sigma & Lean Manufacturing 9:00am – 10:15am		
10:00 AM – 11:00 AM					
11:00 AM – 12:00 PM	BIOT 405 Cell & Gene Therapy 11am – 12:15pm		BIOT 405 Cell & Gene Therapy 11am – 12:15pm		
12:00 PM – 1:00 PM					
1:00 PM – 2:00 PM					
2:00 PM – 3:00 PM					
3:00 PM – 4:00 PM					
4:00 PM – 5:00 PM		BIOT 405 Cell & Gene Therapy 4pm – 5:15pm		BIOT 405 Cell & Gene Therapy 4pm – 5:15pm	
ONLINE	PHIL 400 Ethics in Emerging Technologies <i>Online</i>				

### SEMESTER 4

TIME	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
12:00 PM – 1:00 PM					
1:00 PM – 2:00 PM	BIOT 409 Methods in Quality Improvement 1pm – 2:15pm		BIOT 409 Methods in Quality Improvement 1pm – 2:15pm		
2:00 PM – 3:00 PM			BIOT 409L Lab 2:30pm – 5:20pm		
3:00 PM – 4:00 PM		BIOT 410 Emerging Trends 1pm – 2:15pm		BIOT 410 Emerging Trends 1pm – 2:15pm	
4:00 PM – 5:00 PM					
ONLINE	BUS 400 Project Management <i>Online</i>				