

Course Outline

585.729.81.FA22 - Cell & Tissue Engineering

This outline provides an overview of the course and assignments by week. Please remember to check the calendar for specific due dates.

Each course module runs for a period of seven (7) days, i.e., one week. Due dates for quizzes, assignments, etc. are referred to by the day of the module week in which they are due. Module weeks begin on Wednesday.

Module	Dates	Module Title	Assignments Due
Module 1 Drummond	Wed 8/31/22– Tues 9/06/22	The Challenge - Repairing the Human Body	<ul style="list-style-type: none">• Introductions Discussion Forum• Module 1 Discussion
Module 2 Voycheck	Wed 9/7/22– Tues 9/13/22	Quantum Information Processing and Genetic Engineering	<ul style="list-style-type: none">• Module 2 Discussion• Module 2 Assignment• Module 2 Self-Check Quiz
Module 3 Voycheck	Wed 9/14/22– Tues 9/20/22	Cellular Dynamics and High Throughput Biological Data	<ul style="list-style-type: none">• Module 3 Discussion• Module 3 Assignment• Module 3 Self-Check Quiz
Module 4 Voycheck	Wed 9/21/22– Tues 9/27/22	Tissue Organization and Dynamics	<ul style="list-style-type: none">• Module 4 Discussion• Module 4 Assignment• Review the Course Project Overview
Module 5 Voycheck	Wed 9/28/22– Tues 10/4/22	Morphogenesis	<ul style="list-style-type: none">• Module 5 Discussion• Module 5 Assignment
Module 6 Voycheck	Wed 10/5/22– Tues 10/11/22	Cell Numbers, Growth and Kinetics	<ul style="list-style-type: none">• Module 6 Discussion• Module 6 Assignment• Module 6 Self-Check Quiz• Course Project – Assignment A
Module 7 Drummond	Wed 10/12/22– Tues 10/18/22	Cell Adhesion and Migration	<ul style="list-style-type: none">• Module 7 Discussion• Module 7 Assignment• Course Project – Assignment B
Module 8 Nyberg	Wed 10/19/22– Tues 10/25/22	Cell and Tissue Mechanics	<ul style="list-style-type: none">• Module 8 Discussion• Module 8 Assignment• Course Project – Assignment C (started this week)
Module 9 Nyberg	Wed 10/26/22– Tues 11/1/22	Cell Trafficking and Molecular Transport	<ul style="list-style-type: none">• Module 9 Discussion• Module 9 Assignment• Course Project – Assignment C (completed this week)



Module	Dates	Module Title	Assignments Due
Module 10 Nyberg	Wed 11/2/22– Tues 11/8/22	Biomaterials and Host Integration	<ul style="list-style-type: none"> Module 10 Discussion Module 10 Assignment Course Project – Assignment D
Module 11 Nyberg	Wed 11/9/22– Tues 11/15/22	Stem Cells	<ul style="list-style-type: none"> Module 11 Discussion Module 11 Assignment Course Project – Assignment E (Due at the end of module 12)
Module 12 Nyberg	Wed 11/16/22– Tues 11/22/22	Tissue Engineered Cartilage, Bone, Skin and Nerve	<ul style="list-style-type: none"> Module 12 Discussion Module 12 Assignment Course Project – Assignment E (Started last week)
	Wed 11/23/22 – Tues 11/29/22	Thanksgiving Break	
Module 13 Nyberg	Wed 11/30/22– Tues 12/6/22	Artificial Organs	<ul style="list-style-type: none"> Module 13 Discussion Course Project – Final Report and Presentation Due
Module 14 Drummond/Nyberg	Wed 12/7/22 – Tues 12/13/22	Final Projects & Semester Wrap-up	<ul style="list-style-type: none"> Final Exam Exit Survey Discussion of Project Presentations Course Take-Away Discussion

