

New York City College of Technology

Entertainment Technology Department
300 Jay Street, Room V-205 Brooklyn, NY 11201
(718) 260-5588 <http://www.entertainmenttechnology.org/>



ENT-2210 Advanced Scenery Construction

Pre-requisites: Scenery Construction (ENT-1110), Tech Production I (ENT2120)
Pre- or Co-Requisite: Theatrical Drafting (ENT 2200)
2014, Fall Semester
Professor: John McCullough
Office: Room 121, Voorhees Hall, (718) 260-5506
Email: jmccullough@citytech.cuny.edu
Office Hours: Mondays 11am-1pm

Class Meeting Time:

Tuesdays and Thursdays, 10:00am-11:40am, Room V124

Course Description:

This course aims to take a student from competency to proficiency in the scene shop. A successful student will be able to take a scenery project from the drawing to completion, either alone or leading a small crew. Skills covered include: construction techniques, project planning, tool and procedure selection, joinery, time and cost estimation and carpentry. Coursework will focus heavily on lab and project work.

Required Texts:

Stock Scenery Construction Handbook by Bill Raoul and Mike Monsos, 3rd edition ISBN: 978-0911747430
Backstage Handbook by Paul Carter, 3rd Edition. Broadway Press. ISBN: 978-0911747393
The Complete Manual of Woodworking by Jackson, Day, Jennings ISBN:0-679-76611-1

Recommended Reading:

The Jigs & Fixtures Bible by DeCristoforo ISBN: 1-55870-563-5
Jim Tolpin's Table Saw Magic by Tolpin ISBN: 1-55870-677-1

Required Equipment:

25' tape measure, safety glasses, pencil, work gloves, appropriate shop attire (will be discussed in class)

NOTE: You are required to bring your equipment to every class meeting!

Attendance/Promptness:

If you have a legitimate reason for missing a class/assignment or if you will be late, you must contact me (see above) **BEFORE** class begins. It is City Tech policy that if you have three unexcused absences, you will fail the class.

Students with perfect attendance (no days late or absent) will be **REWARDED**. If you have perfect attendance, I will drop the lowest quiz or homework grade from your record when I calculate your final grade.

Grades:

Your grade will be determined as follows:

Participation	5%
Quizzes	10%
Homework	20%
Joinery Project	10%
Tool Report	10%
Jig Project	10%
Final Project (Outfit a shop)	10%
Test 1	10%
Test 2	15%

NB: If you miss a quiz or test due to an unexcused absence, you will receive a zero for that test or quiz, and you must propose an extra credit project as a make-up. Quizzes may contain questions not covered in class. Do the reading!

NB: I will not accept late assignments for grading. I will look at any work you wish to show me, but a late assignment will always receive a grade of zero. Unless otherwise noted, you are free to discuss homework assignments with each other, but you are responsible for doing all of your own work. Any act of academic dishonesty will result a grade of zero for the assignment in question for ALL students involved. CityTech's policy on Academic Integrity is available at http://www.citytech.cuny.edu/aboutus/docs/policies/CT_PolicyManual11_12.pdf.

Learning Outcomes

After taking this class, the student will be able to...	This will be demonstrated by...
Plan and execute the construction of a complex scenic piece (either a single complicated piece, or the combination of simpler pieces into a cohesive whole)	Final Project
Identify and operate wood- and metal-working tools commonly found in scene shops	Lab work, projects, quizzes
Choose tools and techniques appropriate to a project	Lab work, projects, quizzes
Read and understand drawings (build drawings, ground plans, schematics) [Gen Ed]	Lab work, project, quizzes
Estimate materials, labor and tooling needed to complete a scenery project	Project 1, Final Project, Homework, quizzes

ENT-2210 Advanced Scenery Construction Course Outline			v. 2015-07-14
Date	Topic	Due	Assigned
8.27	Class Introduction, Diagnostic Test, Shop Safety		Acquire class materials Homework: Hardware Store/Lumber Yard
9.1	Tool Review – Table Saw	Jackson: pp156-163	Tool Report
9.3	Tools Review – Hand Power Tools	Jackson: pp123-150	
9.8	Tools Review – Hand Tools	Homework: Hardware Store/Lumber Yard Jackson: 75-122	
9.10	No Class – Monday Schedule		
9.15	No Classes		
9.17	Quiz: Tools; Tools Review – Air Tools		
9.22	No Classes		
9.24	Quiz: Air Tools; Tool Reports (Group 1)	Tool Reports	
9.25 FRIDAY	Tool Reports (Group 2)		Jig Project
9.29	Materials Review – Lumber, Sheet Goods	Choose a Jig Raoul: pp 238-246 Jackson: pp 10-38	
10.1	Construction – Flats	Raoul: pp23-118	
10.6	Construction – Doors and Windows Materials – Moulding		
10.8	Project Planning – cut lists, procedure, jigs, construction drawings		Homework: Cut List/Lumber Order 1
10.13	Quiz: Power Tools; Lab Day – Jig Project		
10.15	Lab Day – Jig Project	Homework: Cut List/Lumber Order 1	
10.20	Jig Project Presentations; Test Review	Jig Project	
10.22	Test 1 – Materials, Tools, Flats		
10.27	Construction - Joinery	Jackson: pp 215-248	Joinery Project
10.29	Lab Day – Joinery		
11.3	Lab Day – Joinery		
11.5	Lab Day – Joinery		
11.10	Construction – Platforms	Joinery Project Raoul: pp 142-195	
11.12	Construction – Deck Surfaces		
11.17	Quiz: Platform Construction Construction – Legs/Stairs	Raoul: pp 196-223	Homework: Cut List/Lumber Order 2
11.19	Putting it all together – Hardware and fasteners		Final Project
11.24	Construction – 3d Scenery Materials – foam, wire		Homework: Build a Rock or Stump
11.26	No Class – Thanksgiving		
12.1	Planning for a crew	Homework: Cut List/Lumber Order 2	Homework: Project plan for a small crew
12.3	Materials – Fabric	Raoul: pp 119-141 Homework: Project plan for a small crew	
12.8	Construction – Soft Goods, Grommets	Raoul: pp 119-141	Homework: Spec soft goods to be built for a show
12.10	Automation Components – Deck Tracks and Wagons	Homework: Spec soft goods to be built for a show	
12.15	Test Review	Homework: Rock or Stump	
12.17	Test 2 – Platforms, 3d scenery, hardware, soft goods, moulding	LAST DAY FOR LATE HOMEWORK	
12.22	Project Presentations	Final Project	