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Spring 2020

ID 264-002: Industrial Design Studio II (Revised for Remote Learning)

Mathew Schwartz

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Industrial Design Studio 2:

ID-264 | Spring 2020

Monday/ Thursday 1:00 -5:35 P.M. | Weston 710 (on webex starting from spring break)

Professor Mathew Schwartz | cadop@njit.edu

OFFICE HOURS: | Tuesday 2:15-3:15 PM by appointment (webex)

Overview:

What goes into making a product? Are solutions made for problems, or are the problems created for a solution? This studio class will introduce students to the pipeline of creating a product from the ground up. Throughout the semester students will work on idea generation, prototyping, packaging, marketing, and evaluating their designs. Knowledge from the previous and current courses within the industrial design curriculum will be leveraged, from human factors to modeling and prototyping.

The theme of the studio is *People in Motion*. This covers a wide range of topics, from wearables and fashion to sports trainers and interactive games.

Learning Objectives:

- Understand and demonstrate experience with each step of the process for creating a product
- Increase competency in representing concepts and presentations in multiple stages of product design
- Integrate skills and techniques from non-studio classes
- Develop portfolio and materials for presentation and self-representation
- Learn and demonstrate experience with multiple design methods

Schedule

Week Date	Topic (subject to change)	Information
1 January 23	Scope	Time management, Resources, Facilities, Goals, and Introductions
2 January 27	Sketching	Due: Past and Future Objectives
2 January 30	Design Process	Due: People in Motion Topic Ideation I
3 February 3	Photography	Due: Sketching
3 February 6	Design Process	Due: People in Motion Topic Ideation II
4 February 10	Topology	Due: Paper Light
4 February 13	Working	Due: Problem Statement I
5 February 17	CNC	Due: Problem Statement II
5 February 20	Business	Due: Jewelry Stand
6 February 24		
6 February 27	Working	Due: Market Analysis and Presentation
7 March 2	Graphics	
7 March 5	Human Subjects	Due: Topic Presentation
8 March 19	Working	Due: Prototype I
8 March 12	Working	Due: Manufacturing Analysis
9 March 16 SPRING BREAK NO CLASS		
9 March 19 SPRING BREAK NO CLASS		
10 March 23	Working	
10 March 26	Website	Due: Evaluation Results
11 March 30	Working	Due: Prototype II
11 April 2	Graphics	
12 April 6	Working	Due: Working Model I
12 April 9	Working	Due: Packaging
13 April 13	Working	Due: Shape Optimization Table
13 April 16	Working	Due: Useable Products
14 April 20	Working	Due: Video Tutorial+Demo of Using Product
14 April 23		Due: Marketing Packet (Includes Commercial + Website)
15 April 27	Final Review OPEN WEBEX	Due: Product Website
15 April 30	Portfolio	Due: Personal Website, Due: Studio Portfolio
16 May 4	Last Day of Class	Due: Final Personal Portfolio May 3rd 10:00 PM

Grading

30% Participation - Answering questions (in class and through surveys/forms), asking questions, engaging in activities, not working on other projects

30% Analysis, Reports, and Presentations

20% Exercises

20% Final Portfolio from class

GradeScale

A Superior

B+ Excellent

B Very Good

C+ Good

C Acceptable

D Minimum

F Inadequate

AU Audit

I Incomplete. Grade deferred--given in rare instances to students who would normally have completed the course work but who could not do so because of special circumstances. If this grade is not removed during the next regular semester, a grade of F will result.

W Withdrawn

S Satisfactory

U Unsatisfactory

Late Work:

Late work is accepted with a half ($\frac{1}{2}$) point reduction per hour after the deadline. Each hour is rounded up. For example, a grade of 95 will become a 92 if submitted 5.2 hours late. In the case of a presentation or quiz, this policy does not apply and make-up presentations are not accepted.

Readings

Readings will be provided and no books are required for purchase.

Plagiarism

Plagiarism refers to text, visual, and intellectual property. Not citing work, misleading during a presentation or submission on where the idea came from, or using words from a paper without quotations will be reported to the dean of students.

Lates

Arrival to class on time, and remaining for the duration of class, is mandatory. Attendance is taken at the beginning of class. If a student is late they must notify the professor at the class break (1.5 hours after the start) and have their name recorded as late. Not doing this will count as an absence and will affect the grade. Arrival later than 1.5 hours into class

is recorded as absent. Each late is 2 points off of the participation grade. Each Absent is 5 points off of the participation grade.

University/College Rules

Academic integrity and honesty are of paramount importance in this class. The NJIT “University Code on Academic Integrity” will be upheld and any violation can, and will be, brought to the immediate attention of the Dean of Students by either a faculty member or student.

Regular attendance is expected. When possible, please give advance notice of your absence. NJIT requires attendance for ALL students. After 3 recorded absences, your grade will be lowered by ONE (1) letter grade for each additional absence, if you are not carrying a medical, school or religious related excuse. This means that any student who would have received an “A” will now receive a “B”, a “B+” reverts to a “C+”, etc. No excuses will be accepted without a written note from the Dean or a doctor. Students with particular needs and foreseen absences should present them to their instructor within the first week of class. Attendance for student athletes: No student athlete may miss any regularly scheduled classes for any practice activities. This means students can neither miss nor leave class early (or arrive late) to attend a practice. While student athletes may miss class when participating in intercollegiate competition, it is the responsibility of the student athlete to proactively inform the instructor well in advance to make appropriate arrangements to complete or make up any assignments or exams in a timely fashion.

Students with disabilities should see me at the start of the semester to discuss any needs.

The syllabus is an outline for the class, and subject to change. Students are required to regularly check changes of the syllabus.

“Academic Integrity is the cornerstone of higher education and is central to the ideals of this course and the university. Cheating is strictly prohibited and devalues the degree that you are working on. As a member of the NJIT community, it is your responsibility to protect your educational investment by knowing and following the academic code of integrity policy that is found at:

<http://www5.njit.edu/policies/sites/policies/files/academic-integrity-code.pdf>.

*Please note that it is my professional obligation and responsibility to report any academic misconduct to the Dean of Students Office. **Any student found in violation of the code by cheating, plagiarizing or using any online software inappropriately will result in disciplinary action. This may include a failing grade of F, and/or suspension or dismissal from the university.** If you have any questions about the code of Academic Integrity, please contact the Dean of Students Office at dos@njit.edu”*