



## Methods in Lighting & Texturing

CIS 279 I99

**Number of Credits:** 3

**Days Class Meets:** Online // Virtual

**Meeting Times:** Asynchronous Live Sessions TBD

**Location/Venue:** TBD

**Instructor:** Ben Mitchell

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**Contact Email:** [bmitchell@hudson.k12.mi.us](mailto:bmitchell@hudson.k12.mi.us)

**Online Office Hours:** TBD

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### Course Description

Students will learn how to set up 3D environments, dynamic and static lighting and be able to use mappings to manipulate that light on a 3D surface. Material and surface terminology will also be taught. Students will be introduced to 2D matte painting techniques for environmental backdrops.

### Prerequisite(s)

CIS 134 and CIS 274

### Course Goals

- 1) Use industry standard software to build texture for 3D surfaces
- 2) Understand the structure of UV space
- 3) Develop workflow techniques

### Course Objectives

The e course goals and objectives incorporate specific General Education Outcomes (GEOs) established by the JC Board of Trustees, administration, and faculty. These goals are in concert with four-year colleges and universities and reflect input from the professional communities we serve. GEOs guarantee students achieve goals necessary for graduation credit, transferability, and professional skills needed in many certification programs. The GEOs and course objectives addressed in this class include the following:

Upon completion of this course, students should be able to:

- Navigate workspace and successfully complete actions within software to further advance workflows
- Project and sync UV meshes
- Scale, direct and unfold materials and textures
- Apply textures and paint
- Understand the relation between low and high resolution production
- Recognize 3D textures and materials terminology
- Execute light mapping and relative paths

EC 1 Think Critically and act responsibly.

EC 2 Work productively with others, recognizing individual contributions to group success.

EC 3 Exhibit technological literacy.

## Textbook

**Text Book Zero! There is no text required for this course.** More information regarding Textbook Zero is available at the following link: <https://www.jccmi.edu/academics/tbz/>

## Follett Access

- Please [review the cost of your required materials](#) to determine the best option for you to purchase your materials.
- For more information on the Follett ACCESS Program, you can view the [view the frequently asked questions](#).

If after reviewing the costs, you choose to opt out, you may do so here: [www.jccmi.edu/optout](http://www.jccmi.edu/optout). Please note your opt out selection is for your entire semester schedule. You cannot opt out and opt in to individual courses. And you must opt out by the due date for your first class.

Class Starts On:	Opt Out Date:
January 11, 2021	January 14, 2021
February 15, 2021	February 18, 2021
March 15, 2021	March 18, 2021
March 30, 2021	April 2, 2021

If you have questions about materials, please contact the Jackson College Follett bookstore at [jackson@bkstr.com](mailto:jackson@bkstr.com). For account billing questions, please contact the Jackson College Cashier at [jccashier@jccmi.edu](mailto:jccashier@jccmi.edu).

## Extras

Students are required to have internet access, cloud or flash storage and regular access to either Adobe Creative Cloud or creative software applications of choice.

## Grading Procedure

Assignments = 50 pts each

Final Project = 100 pts

**TOTAL = 300 pts (est.)**

## Grading Scale

<b>GPA</b>	<b>GRADE RANGE</b>
4.0	94-100%
3.5	89-93%
3.0	84-88%
2.5	78-83%
2.0	72-77%
1.5	66-71%
1.0	60-65%
0.5	55-59%
0.0	0-54%

## Failure

Students must achieve a passing grade of D or above by completing all required examinations, submitting all required exercises and projects, and meeting the standards of the school attendance policy. For program specific grade requirements, it is required that a 2.0 be achieved in order for it to count towards success in the program.

## Academic Honesty Policy

Academic Honesty is defined as ethical behavior that includes student production of their own work and not representing others' work as their own, by cheating or by helping others to do so.

## Plagiarism

Plagiarism is defined as the failure to give credit for the use of material from outside sources. Plagiarism includes but is not limited to:

- Submitting other's work as your own

- Using data, illustrations, pictures, quotations, or paraphrases from other sources without adequate documentation
- Reusing significant, identical or nearly identical portions of one's own prior work without acknowledging that one is doing so or without citing this original work (self-plagiarism)

## **Cheating**

Cheating is defined as obtaining answers/material from an outside source without authorization. Cheating includes, but is not limited to:

- Plagiarizing in any form
- Using notes/books/electronic material without authorization
- Copying
- Submitting others' work as your own or submitting your work for others
- Altering graded work
- Falsifying data
- Exhibiting other behaviors generally considered unethical
- Allowing your work to be submitted by others

## **Accessibility**

Jackson College understands that cultivating a broadly diverse community is crucial to our educational mission and to our foundational commitment to leadership and service. Jackson College is fully committed to ensuring our courses are accessible to everyone including those with disabilities. We are currently working to increase accessibility and usability of our course materials in order to meet or exceed the requirements of Section 508 of the Rehabilitation Act of 1973, the Americans with Disabilities Act of 1991 and Web Content Accessibility Guidelines (WCAG) 2.0. For more information about Jackson College's efforts to ensure accessibility please visit the [Jackson College accessibility web page](#).

If you have an accessibility need in any of our classes please e-mail the Center for Student Success at [JCCSS@jccmi.edu](mailto:JCCSS@jccmi.edu) or visit the [Center for Student Success web page](#).

At the Center for Student Success (CSS), we are committed to providing all students the opportunity to achieve academic success by providing a variety of support services free of charge to Jackson College students. This includes, but is not limited to, peer and faculty tutoring, mental health referral, temporary assistance with transportation, various workshops/seminars, and the TRIO program.

In addition, the CSS staff is committed to adapting the College's general services to meet the individual needs of otherwise qualified students with disabilities, for the purpose of providing equal access to all programs and facilities.

## Course Management

Because courses vary in length, it is critical that you check the last day to drop or withdraw by going to [www.jccmi.edu](http://www.jccmi.edu) , under 'Quick Links' choose "Drop Classes". If you receive financial aid, call 517-796-8410 to discuss the impact of dropping or withdrawing. Students who stop attending class without completing a withdrawal form will receive a grade of 0.0. It is the student's responsibility to withdraw from a course. The instructor cannot issue a drop from this course for you. You should initiate a withdrawal at the main campus Registrar's Office or at any JC center if you cannot complete the course. You should also contact the instructor when considering a withdrawal.

## Help

The instructor is always there to point you in the direction for success. The instructor will make time to help students get on track provided the student has shown a willingness to stay on track from the beginning of the course. Incomplete grades are not approved unless they follow the college Incomplete grade policy.

## Academic Advising

It is important to contact a Center for Student Success professional prior to the start of the semester in order to receive accommodations in a timely manner. While we will make every effort to coordinate accommodations in a timely manner, failure to self-identify prior to the start of the semester may delay notification to instructors and timeliness of acquiring accommodations. Accommodations do not automatically carry over to the next semester. Please e-mail [JCCSS@jccmi.edu](mailto:JCCSS@jccmi.edu) or visit the [Accommodations for Students with Disabilities](#) web page

## Student Responsibilities

You may be asked to search for images or graphics to use for the assignments in this class. Feel free to visit any Web site of interest, but **do not upload any copyrighted material in JetNet** — anything from an article to a cartoon—without the permission of the copyright owner. ***YOU MUST CREDIT THE AUTHOR OR ARTIST AT ALL TIMES.*** This will be discussed in class further.

You will be expected to review the Zoom recorded live session links if you are not able to attend the synchronous live sessions weekly.

## Attendance- Participation Policy

### For online sections

Just as in a traditional classroom course, regular class participation and keeping up on the reading and assignments is strongly correlated with survival in college. It is my recommendation that you plan to do your assignments and take your exams BEFORE the last day they are due. If problems occur, there is time to fix them before the deadline.

In compliance with Federal Title IV funding requirements, as well as college initiatives, I will be monitoring student participation on a regular basis and officially reporting student activity throughout the term to assure compliance with college policy and federal regulations. It is imperative that you log in to the course and actively participate *within the first couple of days of the term* to validate your enrollment in the course.

After that, not actively participating in class may result in you being withdrawn from the course. Being withdrawn from a course can have an impact on financial aid, billing, athletic eligibility, and housing status. As a college student you are responsible for how your participation impacts your academic progress; the accountability lies with you.

## Caveat

There may be things that would require revisions to the syllabus, the dates within JetNet, the schedule or calendar. For example, instructor illness causing changes in the calendar. Other events may affect the course calendar (at times it varies). Typing errors or a due date that must be changed may occur. In any case, the class will be notified of changes to the syllabus or calendar.

## Calendar

*\*Calendar timelines and assignments are an approximation and could be changed.*

UNIT	DATE	TOPIC	HOMEWORK
1	MAR 15	Intro, Timeline, Discussion Navigation, Projection and meshes	Intro to Assignment 1
2	MAR 22	Scale & Direction, Unfolding, material and Blender to Maya	Assignment 1 Due
3	MAR 28	Stacked vs. Stacked UVs, Color	Assignment 2
4	APR 7	Tiled and non-tiled workflows	Assignment 2 Due
5	APR 14	Window unwrap, window paint, mesh data, alphas and editing	Assignment 2 Due Intro to Final Project
6	APR 21	Building assets, Mapping, Shadows and light mapping. Rendering	Assignment 3 Final project Lab
7	APR 28	Final + Reflection	Final Project Due

## Important Dates:

<b>DATE</b>	<b>EVENT</b>
1/11 SEMESTER BEGINS	DAY AND EVENING CLASSES BEGIN
1/11	1 <sup>ST</sup> 7 WEEK SESSION
1/18	MLK DAY
2/28	1 <sup>ST</sup> 7 WEEK SESSION COMPLETE
3/08-3/12	MID-SEMESTER BREAK
3/15	2 <sup>ND</sup> 7 WEEK SESSION BEGINS
5/01	SEMESTER ENDS // GRADES DUE