

GAME 125 – Digital Imaging Techniques

UNM Valencia, Game Design and Simulation

updated 8-2020

Fall 2020

Instructor: Michael Brown

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Online Office Hours: Monday & Wednesday 9:00-10:00
Also by appointment
You can also text or call (575) 621-8140

Course Description

Create 3d models in the industry standard modeling programs.

Objectives

- Learn the modeling interface for 3ds Max or Maya
- Maintain a structured workflow for projects
- Learn basic modeling techniques and best practices
- Learn how to create textures and materials
- Learn how to create a skeleton and animation system

Required Text

None

Student Responsibilities/Attendance/Participation

Student Responsibilities:

- Students must have basic computer and file management skills for all GAME courses. Custom tutoring services are available through the TLC. Required pre/co requisite is IT 101: Computer FUNDamentals. Students that fall behind due to lack of basic computer skills will be dropped.
- Bring a USB Flash Drive (at least 32 GB) to every class. Make sure it is clearly labeled with your name on it.
- Have access to the required text(s) and other subscriptions as required
- If you have a disability, please inform me of your needs as soon as possible to ensure that your needs are met in a timely manner.
- Cell phones need to be muted during class times. If you must receive a call, leave the lab before you answer. No phone conversations in the studio. No web browsing, email, or text messaging during lectures, demos, discussions, or critiques.

- **COMPUTERS WILL BE OFF DURING ALL CRITIQUES!!!**

Attendance/Participation:

- Students are required to complete all projects on time, participate in scheduled critiques/class discussions/presentations, and maintain a safe, respectable, positive lab environment.
- Students are required to attend class, arrive on time, remain present until the end of class, and be prepared for each day's work. More than three absences without prior consultation may result in a failing grade or a drop from the class. Leaving early or arriving late three times results in one absence.
- If you have not attended class for three consecutive class periods and have made no attempt to call/email/IM/contact me, you WILL be dropped.
- Students who do not attend the first week of class will automatically be dropped.

Grading Policy

Grading:

- Grading is based on a timely completion of course assignments, the quality of individual technical and critical development, conceptual progress, personal commitment and the ability to work in a community studio setting. Personal commitment involves regular attendance, consistent effort, completion of work, participation in presentations, critiques and class discussions, and the general willingness to try. Make each project meaningful to yourself!
- Each assignment will culminate in a presentation, which will consist of discussing your work and/or projecting your completed work in class for all to see. All due dates will be announced in Blackboard, as well as on the syllabus. No full credit will be given for any late work. If an assignment is not presented on time, an automatic 0 will be issued. You will need to make arrangements with me if you are planning to make-up the work, and a fair grade will be issued once the work has been submitted, presented, and critiqued, minus an automatic one letter grade deduction.
- Incompletes are rarely issued. If 75% of the semester's work/projects/deliverables and participation/attendance have been completed with a satisfactory grade, and incomplete may be issued.

Grading Breakdown

Points will be added up and a letter grade will be issued according to the following scale:

| | |
|----|--------|
| A+ | 101+ |
| A | 94-100 |
| A- | 90-93 |
| B+ | 88-89 |
| B | 84-87 |
| B- | 80-83 |
| C+ | 78-79 |
| C | 74-77 |
| C- | 70-73 |
| D+ | 68-69 |
| D | 64-67 |
| D- | 60-63 |
| F | 50-59 |

How to Contact the Instructor

Online Office Hours: Monday & Wednesday 9:00-10:00
Also by appointment
You can call or text (575) 621-8140

Email:

You can email me at mbrowngame@unm.edu or mibrown@nmsu.edu In the Subject Line of the email, ALWAYS write your full name and class number. For example – “Michael Brown GAME 205”

Support Information, Resources, & Tutorials

Access to the book:

- University of New Mexico Valencia Bookstore:
 - o <http://www.unm.edu/~unmvc/Bookstore/Bookstore.htm>
- Library System:
 - o University of New Mexico Valencia Campus Library:
 - <http://www.unm.edu/~unmvclib/>
 - There will be one copy on reserve. You will need to check it out at the front desk. It will only be available for 2-hour checkout, and cannot ever leave the library.
- Purchase Online:

If you plan on purchasing this book online, you need to do so immediately. We will start using it right away! A couple of sources for purchase online are:

 - Amazon.com: www.amazon.com - some new, some used
 - Half.com: www.half.ebay.com - discounted prices for used books!

Open Studio Time – Digital Media Arts Open Lab & Darkroom:

- Located in Room 123A in the Business & Technology Building (directly in front of the current B&T open computer lab Room 123). You will need to enter the lab through the current B&T computer lab and sign-in to use the computers.
- Monday through Thursday 8:00am to 8:00pm
- Friday 8:00 am to 2:00 pm

Other tutorials:

- I will post a number of links to video tutorials in Blackboard for this course.

Instructor Support:

- Please see “How to Contact the Instructor” for methods of contacting the instructor for help.

Community Support:

We will have a HELP FORUM discussion board in the Blackboard course. Use this as a place to post questions to the community. It is important for peer learning and peer communication to enhance our community.

Title IX Statement:

A Note About Sexual Violence and Sexual Misconduct: As a UNM faculty member, I am required to inform the Title IX Coordinator at the Office of Equal Opportunity (oeo.unm.edu) of any report I receive of gender discrimination which includes sexual harassment, sexual misconduct, and/or sexual violence. You can read the full campus policy regarding sexual misconduct at <https://policy.unm.edu/universitypolicies/2000/2740.html>. If you have experienced sexual violence or sexual misconduct, please ask a faculty or staff member for help or contact the [LoboRESPECT Advocacy Center](#).

Course Schedule

Fall 2020
Semester begins August 17

| Dates | Schedule |
|----------------|---|
| <u>Week 1</u> | <ul style="list-style-type: none">• Review Syllabus• Review Blackboard• Intro to 3ds Max• Project 1: Primitives |
| <u>Week 2</u> | <ul style="list-style-type: none">• Lecture: Box Modeling• Project 2: Box Model a piece of furniture• Project 3: Box model 2 spaceships |
| <u>Week 3</u> | <ul style="list-style-type: none">• Lecture: Cameras and Rendering |
| <u>Week 4</u> | <ul style="list-style-type: none">• Lecture: Keyframe Animation• Project 4: Bouncing Ball |
| <u>Week 5</u> | <ul style="list-style-type: none">• Finish Project 4 |
| <u>Week 6</u> | <ul style="list-style-type: none">• Lecture: Polygon modeling a city• Project 5: Creating a city |
| <u>Week 7</u> | <ul style="list-style-type: none">• Lecture: Path animation and using cameras |
| <u>Week 8</u> | <ul style="list-style-type: none">• Lecture: Basic UV's in 3ds Max• Project 6: Texturing an object |
| <u>Week 9</u> | <ul style="list-style-type: none">• Lecture: Character Animation in 3ds Max• Project 7: Basic walk animation |
| <u>Week 10</u> | <ul style="list-style-type: none">• Lecture: Using the Biped and footsteps• Project 8: Creating an obstacle course animation |
| <u>Week 11</u> | <ul style="list-style-type: none">• Lecture: Physics in 3ds Max• Project 9: Physics driven mini-golf course |
| <u>Week 12</u> | <ul style="list-style-type: none">• Project 10: Quick fight scene animation |

| | |
|----------------|--|
| <u>Week 13</u> | <ul style="list-style-type: none">• Project 11: Final Project |
| <u>Week 14</u> | <ul style="list-style-type: none">• Work on Final |
| <u>Week 15</u> | <ul style="list-style-type: none">• Work on Final |
| <u>Week 16</u> | <ul style="list-style-type: none">• Final Project due |

*Schedule is very tentative and could easily change depending on the classes needs