GAME 231 - Three-Dimensional Game Art I (K01, Fall 2022)

Information
Location: G313
Time: 10:30-11:45 am, Tuesdays & Thursdays
Instructor: John David McGrew
Email: jmckgw4@gm.edu
Office Hours: Tues/Thur 1:45-4:15pm, G553 (email for appointment)

Instructional Mode
The course is currently designed as a face-to-face course in the Mason Korea building but may be adjusted to accommodate or adhere to changing conditions.

Description
3D modeling, character design, and animation projects are constructed using commercial and proprietary software and game design tool kits and engines. Simple texturing and model rigging for game animation will be discussed and explored. Limited to three attempts.

Succeeding in this Course
Students that attentively attend each class, participate, take notes, read & follow instructions, start and turn in assignments on time, spend adequate time (9+ hours per week) outside of class on projects, and communicate with the instructor are far more likely to succeed in this course. 3D modeling and animation go beyond memorizing facts and require students to learn how to problem solve and take on new creative challenges.

Prerequisites
GAME 104, with grade of C or above.

Objectives
- Build skills in and develop a knowledge of 3D game art tools and techniques
- Model optimized, game-ready 3D Objects
- Create basic model textures
- Develop a basic knowledge of game pipelines and import 3D models into a game engine
- Animate 3D modeled rigs

Required Software
All required software is available on Game Design classroom lab computers for on-campus work:
**Autodesk 3DS Max 2023** (free student version available through [students.autodesk.com](http://students.autodesk.com))
**Unity 2021.X** (free version available at [unity.com](http://unity.com))
**Adobe Photoshop CC** (7-day trial and student discount subscription available at [adobe.com](http://adobe.com))
**Cloud storage account** for back-ups (Google drive, Microsoft OneDrive, Apple Cloud, etc...)

Recommended Texts
There are not any required texts for this course, but the following resources are recommended:
**Autodesk’s 3DS Max Support and Learning** page
**The Animator’s Survival Kit** (Williams, ISBN: 9780865478978)

Grading
Assignments are graded on a point scale, based on the assignment rubric. Criteria for assignments often include:
Assignments - 575 points
Milestones - 45 points
Midterm Exam - 150 points
Final Project - 250 points

Assessment
90% or above will receive an “A” grade.
80-89% will receive a “B” grade.
70-79% will receive a “C” grade.
60-69% will receive a “D” grade.
59% or below will receive a grade of “F”

A minimum grade of “C” or above is required for Game Design Majors and Minors to take upper-level coursework for which this course is a prerequisite (example: GAME 398).

Late Work and Resubmissions
Deadlines are a key aspect of the game and film industries. Students are expected to turn in all work by the due date. An assignment turned in within the first week after the due date will receive a 10% grade penalty. An assignment turned in within the second week after the due date will receive a 20% grade penalty. Any assignment turned in more than two weeks after the due date will receive a failing grade.

Students can resubmit any assignment twice for a new grade. Resubmissions must be turned in no later than two weeks after the initial submission was graded. In case of the final project, the deadline for resubmissions is no later than the beginning of the final exam time. If the initial submission was turned in late, any late penalties will also apply to the resubmitted work’s grade.

Course Schedule
The class schedule is available on the course’s Blackboard shell. Please consult the schedule often and attend class regularly to ensure you meet all class requirements.

It is expected that students adhere to the George Mason University Honor Code as it relates to integrity regarding coursework and grades. The Honor Code reads as follows: “To promote a stronger sense of mutual responsibility, respect, trust, and fairness among all members of the George Mason University community and with the desire for greater academic and personal achievement, we, the student members of the university community, have set forth this Honor Code: Student members of the George Mason University community pledge not to cheat, plagiarize, steal, or lie in matters related to academic work.” More information about the Honor Code, including definitions of cheating, lying, and plagiarism, can be found on the Committee of Academic Integrity’s website at https://masonkorea.gmu.edu/resources-and-services/cai/overview.

Diversity, Equality, Equity, and Inclusion
This class strives to provide an equal and equitable learning atmosphere for all students. Communication and actions among students, the instructor, and anyone else in the class is to be respectful and free of any malice, discriminatory language or actions, derogatory language, or hate speech. Students are evaluated based on the merit of their class work, without regard to gender, ethnicity, race, nationality, sexual identity, religion, or political affiliation.

Title IX
Notice of mandatory reporting of sexual assault, interpersonal violence, and stalking
As a faculty member, I am designated as a “Responsible Employee,” and must report all disclosures of sexual assault, interpersonal violence, and stalking to Mason Korea’s Deputy Title IX Coordinator pursuant to University Policy 1202 and 1412. If you would like to speak confidentially with a Mason Korea counselor, please see https://masonkorea.gmu.edu/resources-and-services/counseling-and-wellness for more information. For further information about what Title IX is, please see https://masonkorea.gmu.edu/resources-and-services/title-ix.
Disability Services and Accommodations
This course is meant to be accessible, and the instructor will make reasonable efforts to remove barriers to learning that a student brings to his attention. If at any point in the semester you would like to apply for specific accommodations relating to physical, learning, and/or psychological disabilities, please contact the Director of Academic Affairs (Jiye Chang - jchang22@gmu.edu), who will connect you with Disability Services on the Fairfax campus.

Changes to Syllabus and Schedule
The instructor reserves the right to make changes and adaptations to the syllabus and schedule as needed. Any changes will be announced in class.

*This GAME 231 course and syllabus are adapted from materials provided by the Computer Game Design Program and Professor Paul Eric Piccione of the GMU Fairfax Campus.