AN3D 4290 - ADVANCED 3D COMPUTER MODELING + TEXTURING

Credits: 3

This senior-level course focuses on modeling and digitally sculpting assets for games and animation. Assets include a character and environmental prop. Works created in this course will contain a higher level of detail in their geometry and textures than in sophomore and junior-level courses. Upon successful completion of this course, students will have produced production quality assets ready for games and animation.

Prerequisites: AN3D 2320 - 3D Computer Lighting + Materials

Course Learning Outcomes:	Exceeding	Meeting	Developing	Not meeting	Program Outcomes	New Institutional Outcomes
Utilizes special 3D modeling tools and techniques.	Student utilized special tools and techniques at an exceptional level	Student utilized special tools and techniques at a satisfactory level	Student utilized special tools and techniques at a minimal level	Student did not use special tools and techniques in a measurable way	3D13D33D43D53D6	Design Competence, Critical Thinking
Creates high-quality 3D digital environments.	Digial environments are of high quality possessing attention to detail and contain a level of polish that makes them portfolio ready.	Digial environments are well thought out and finished but there is some lack of attention to detail and the level of polish isn't quite appropriate for portoflio work	Digial environments are not complete and require additonal polish. Environment is lacking attention to detail and is in need of addiditional work in order to be considered portfolio work.	Digital environments incomplete and are in need of a great amount of work in order to be considered for portfolio submission. Lack of any polish or detail.	3D13D33D43D53D6	Design Competence, Critical Thinking Cultural Competence, Communication Competence
Develops high-fidelity 3D digital characters.	Models are of production quality and have appropriate topology.	Some models are of production quality but addtional work is needed. Some topology corrections are needed	Modes and textures are not quite ready for production and require additonal polish.	No models or textures are of production quality.	3D13D33D43D53D6	Design Competence, Critical ThinkingCultural Competence, Communication Competence
Utilizes Zbrush and/or Mudbox.	Digital sculpting was used exceptionally and attention to detail is prevalent.	Digital sculpting software was used effectively but is in need of refinement.	Digital Sculpting software was used at a basic level. Models are lacking in detail expected from the sculpting process.	Digital sculpting software may have been used but not effectively. Total lack of sculpted detail.	3D13D33D43D53D6	Design Competence, Critical ThinkingCultural Competence, Communication Competence