

AN3D 3330 - 3D CHARACTER + PRODUCTION DESIGN

Credits: 3

In this junior-level studio course, students explore methods of developing character assets. The relationship between topology, edge-flow, anatomical structure, and mesh deformation will be explored. Upon successful completion of this course, students will have the practical knowledge to produce a character of high visual quality and technical functionality.

Prerequisites: AN3D 2320 - 3D Computer Lighting + Materials

Course Learning Outcomes:	Exceeding	Meeting	Developing	Not meeting	Program Outcomes	New Institutional Outcomes
Translate 2D subject matter reference and character design elements into a functional, well-developed 3D character asset.	3D Character adheres to reference and design. Topology is appropriate for rigging and no errors or concerns are apparent.	3D Character adheres to reference and design. Topology is appropriate for rigging but may have some errors/concerns.	3D Character does not fully adhere to or resemble reference and design. Topology is not appropriate for rigging and has many issues.	3D Character does not adhere to reference and design, and reference/design may be incomplete. Topology is not appropriate and not useable	AN3D-1, AN3D-3, AN3D-5, AN3D-6	Critical Thinking Design Competence Cultural Competence
Construct a 3D character model that adheres to proper technical modeling principles.	3D Character Model exhibits excellent topology and adheres to modeling techniques with no errors.	3D Character Model exhibits appropriate topology and adheres to modeling techniques but some errors may exist.	3D Character Model exhibits topology that is not appropriate across numerous areas and does not fully adhere to modeling techniques	3D Character Model exhibits topology that is not appropriate and does not adhere to modeling techniques in any way across the entire form.	AN3D-1, AN3D-3, AN3D-5, AN3D-6	Critical Thinking Design Competence Cultural Competence
Apply concepts of anatomy, shape, form, structure, and intricate detailing to produce 3D assets with a high level of organic visual quality.	3D Asset demonstrates a thorough understanding of anatomy, form, shape, and structure and includes intricate detailing across the entire form.	3D Asset demonstrates an understanding of anatomy, form, shape, and structure and includes intricate detailing but some areas may be lacking and need additional polish.	3D Asset demonstrates some understanding of anatomy, form, shape, and structure and includes some intricate detailing but some areas may be lacking and need significant additional polish.	3D Asset demonstrates little to no understanding of anatomy, form, shape, and structure and includes little or no intricate detailing.	AN3D-1, AN3D-3, AN3D-5, AN3D-6	Critical Thinking Design Competence Cultural Competence