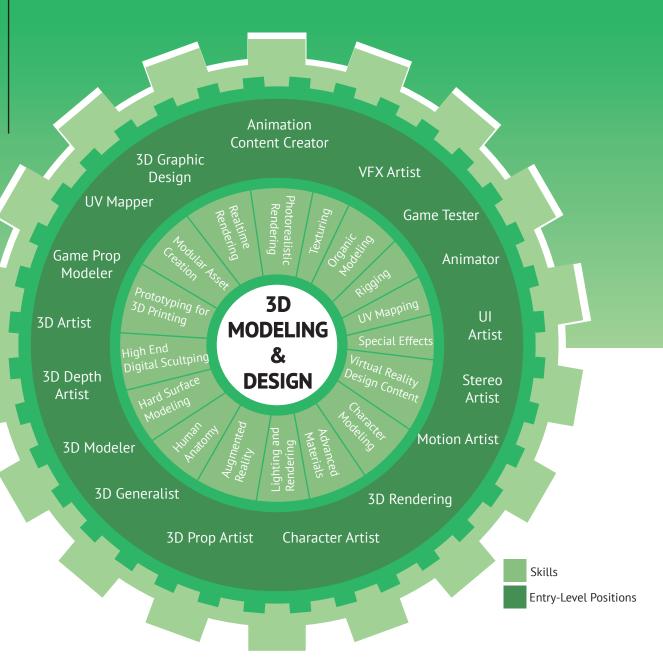
#### **3D MODELING & DESIGN**

Students completing the Bachelor of Science Degree: Media Arts (emphasis in 3D Modeling & Design) will have acquired knowledge of character design and development, modeling, texturing, rendering and lighting. Mastering of these skills results in artists/designers enabled to express visual creativity through technology and the creative process.



Jobs listed are possible positions and not a guarantee of employment.

#### 1-3 YEARS OF EXPERIENCE

Game Character Modeler / Rigger Game 3D Environment Designer Texture / Material Artist for Games 3D Prototyping for Children's Toys Moble Game 3D Artist 3D Medical Visualization Artist

#### **5+ YEARS OF EXPERIENCE**

Feature Film Character Modeler / Rigger
Feature Film Environmental Artist
Cinematics / Facial Modeler Artist
Concept / Story Artist
Rendering / Lighting Artist
Modeling Supervisor

PLATT COLLEGE
Modeling Supervisor

# **B.S. IN MEDIA ARTS: 3D MODELING & DESIGN CURRICULUM**

#### TERM 4

## IA104 Introduction to 3D

emphasis on Autodesk's Maya®. Students will learn and 3D applications, techniques, and theory with an Engine, and Turntable Animation. Modeling, UV Texture Mapping, Arnold Rendering texturing, lighting, and rendering. Polygon and practice the fundamental methods of modeling, Introduction to 3D (IA104) introduces students to 3D (4.5 semester credit hours/100 clock hours)

# IV104 Introduction to Digital Video Production

an emphasis on web delivery, will be introduced. elements will be studied. Video compression, with video analysis, genre division and film fundamental correction, audio, and music). Professional film and to post production (editing, compositing, titles, color production (shooting, lighting, sound, green screen) from pre-production (planning, storyboarding) to offers the fundamentals of Digital Video Production Introduction to Digital Video Production (IV104) (4.5 semester credit hours/100 clock hours)

## IW104 Fundamentals of Web Design

CMS (Content Management Systems) will also be of programming (PHP and JavaScript), behaviors and interactive design strategies. Beginning concepts HTML, CSS, FTP, project management, usability and (GUI) and web page structure. Topics will include foundation in web design, Graphical User Interface Fundamentals of Web (IW104) will offer a strong (4.5 semester credit hours/100 clock hours)

#### 3D310A Hard Surface Modeling - Prop Modeling Hard Surface Modeling - Prop Modeling (3D310A) '5.00 semester credit hours/100 clock hours)

discusses, in detail, traditional subdivision modeling echnics. Finished models will be custom textured placed on clean topology and advanced UV layout echniques in Autodesk Maya. Special emphasis is

## 3D320A Advanced Materials

of this course. Students will learn how to apply models as well as how to render directly inside the materials, normal maps and textures directly to thei rendering (PBR) workflow is the core foundation textures, rendering and lighting. Physically based Advanced Materials (3D320A) focuses on materials '5.00 semester credit hours/100 clock hours)

# 3D330A Anatomy for Character Modelers

creature. Base meshes are created in Autodesk Maya with Pixologic ZBrush used for the detailing. anatomy that could translate to any type of organic believable human forms. The goal of this class is to anatomy and bony landmarks to help create around human anatomy. Students learn surface Anatomy for Character Modelers (3D330A) focuses (5.00 semester credit hours/100 clock hours) have a clear understanding of the underlying muscle

# 3D410A Advanced Organic Modeling

organic tissue. Projects will be rendered in Autodesk to apply their texturing skills to creating realistic create the character. Next, students will learn how creating a high-resolution organic creature model Advanced Organic Modeling (3D410A) focuses on key concepts of this course. Maya and Marmoset. Edge-flow, Displacement maps Normal Maps and advanced ZBrush techniques are from scratch. Students use Pixologic ZBrush to (5.00 semester credit hours/100 clock hours)

## 3D420A Game Character

export their finished character into a game engine Finally, students will learn how to package and end. Students will create a single original character on the entire character workflow from beginning to Game Character (3D420A) class instructs students texturing and shading, and rigging for animation. pipeline, including modeling, high-poly sculpting, from the ground up and carry it through the entire (5.00 semester credit hours/100 clock hours)

## 3D430A Modeling Thesis

placed on self-reliance and problem solving. printed toy design, etc. Heavy emphasis will be product design, architectural visualization, 3D video games, characters or props for film production, students' will design and model an original 3D In the Modeling Thesis (3D430A) class is the Lectures will be custom tailored to the needs of industry. This may include characters or props for model based on their desired specialty within the (5.00 semester credit hours/100 clock hours)

### PP200 Portfolio Project

skills and strategies suitable for gaining students will create a digital portfolio (demo program. Emphasis will be placed on presentation knowledge they have acquired in their specialized reel and web page) to demonstrate the skills and As an outcome of the Portfolio Project (PP200) No transfer credit accepted for this course. (4.5 semester credit hours/100 clock hours)

# **GENERAL EDUCATION**

ENG202 LIT201 MUS201 ENG204A **HUM203** MAT204A **ENV201 Fundamentals of Illustration** Mathematics & Computation Marketing & Business Com. **Enjoyment of Music** Digital Media Writing History of Graphic Design Topics and Figures in Literature Environmental Science II Film and Society