



# 3D Computer Graphics and Modeling

**Introduction** Use professional software and techniques to create 3D models of buildings, vehicles, products, characters, and more. By the end of this minor, you will have a portfolio of work commensurate with the needs of 3D industries.

 <p><b>Careers</b>                  Technical Artist                  Animator                  Character Artist                  3D Visualization Artist                  3D Modeler</p>	 <p><b>Skills</b>                  3D modeling                  Animation                  Surfacing                  Special effects</p>
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**Good to know** Workers with skills in 3D modeling can find jobs in film, video games, architectural design, healthcare, archaeology, and research.

**Related programs** Connected Devices and Making, Video Game Design and Management, Video Game Programming

**Selecting courses** An asterisk (\*) next to a course name means that the course has a prerequisite.

## Minor Requirements

**MINIMUM UNITS: 16**

**MINIMUM SEMESTERS: 4**

Complete the following (13 units)

Course	Title	Units	✓
ITP-215	3D Modeling, Animation, and Special Effects	2	
ITP-305	Advanced 3D Modeling, Animation, and Special Effects*	3	
ITP-315	3D Character Animation*	3	
ITP-360	3D Compositing and Visual Effects*	3	
ITP-415	3D Design and Prototyping*	2	

Choose from the following electives (3 units)

ITP-308	Computer-Aided Design for Bio-Mechanical Systems	3	
ITP-450	Advanced 3D Texturing, Compositing, and Image Processing*	3	
ITP-470	Information Technology Practicum	1-4	
ITP-480	Information Technology Internship	1-4	

## Specialization Requirements

**MINIMUM UNITS: 10**

**MINIMUM SEMESTERS: 2**

Complete the following (4 units)

Course	Title	Units	✓
ITP-215	3D Modeling, Animation, and Special Effects	2	
ITP-415	3D Design and Prototyping*	2	

Choose from the following electives (6 units)

ITP-305	Advanced 3D Modeling, Animation, and Special Effects*	3	
ITP-315	3D Character Animation*	3	
ITP-360	3D Compositing and Visual Effects*	3	
ITP-450	Advanced 3D Texturing, Compositing, and Image Processing*	3	

**How to declare** In order to officially declare one of our minors or specializations, please schedule an appointment to meet with a member of our advisement team. During your appointment, you'll discuss the program requirements, create a course plan, and have the chance to ask any questions you may have. There is not an application, but you must be in good academic standing.





**Curriculum and course offerings** Based on the availability of faculty, students and classroom space, we are able to offer a wide selection of courses every fall and spring semester. However, we are not always able to offer every course. If you are registering for your final semester and the course you need to graduate isn't offered, please contact our advisement team. Additionally, if there are any future changes to the curriculum on this document, students will be provided the option to follow: (a) the degree requirements in the catalogue current in their first term of enrollment after admission or readmission at USC or (b) degree requirements in a subsequent catalogue as long as they were enrolled in a term in which it was in effect.

## ABOUT ITP

We offer a challenging, state-of-the-art education for those interested in learning about the dynamic and growing field of information technology (IT) — which includes computers, mobile apps, data analytics, smart devices, cyber security, and more.

Our classes offer students practical, hands-on experience with the latest tools, programming languages, and applications.

## CONTACT INFORMATION

-  (213) 740-4542
-  OHE 412
-  <https://itp.usc.edu/>
-  [itpadvising@usc.edu](mailto:itpadvising@usc.edu)

## Minor policies

- You must be an undergraduate student at USC in order to declare a minor.
- You must have a declared major in order to declare a minor.
- Each minor at USC requires that at least 16 units be unique to the minor and not count toward any other requirement, including GE, major, or another minor.
- All courses completed for a minor must be completed for a letter grade.
- A minimum cumulative 2.0 GPA must be achieved in the courses applied toward the minor requirements.
- Your minor will appear on your STARS report and your official transcript.
- Students who successfully complete a minor will receive a certificate upon graduation.

## Specialization policies

- Specializations are available to undergraduate students, graduate students, and guests enrolled on a limited status basis.
- Undergraduate students must have a declared major in order to declare a specialization.
- All courses completed for a specialization must be completed for a letter grade.
- A minimum cumulative 2.0 GPA must be achieved in the courses applied toward the specialization requirements.
- Specializations do not appear on STARS reports or official transcripts.
- Students who successfully complete a specialization will receive a certificate upon completion.

# USC Viterbi

*Information Technology Program*



3D Computer Graphics and Modeling



Applied Analytics



Applied Computer Security



Computer and Digital Forensics



Connected Devices and Making



Computer Programming



Innovation: The Digital Entrepreneur



Enterprise Information Systems



Mobile App Development



Video Game Design and Management



Video Game Programming



Web Technologies and Applications