

B.S. Applied Computer Graphics
Technical Option with Communication Design Program

Four-Year Degree Plan
 2009 - 2011 University Catalog

Total Units
120

| | | | |
|-------------------------------------|-------|-------------------|-------|
| APCG Major Technical Option | Units | GE & Electives | Units |
| Core Lower & Upper Division (LD/UD) | 30 | General Education | 54 |
| Technical Option (Tech) | 24 | Electives | 0 |
| Communication Design (CD) | 15 | Double Counted | -3 |
| Major Total Units | 69 | Other Total Units | 51 |

| First Semester | | | Units | Notes ¹ | Second Semester | | | Units | Notes ¹ |
|------------------|---|----|-------|--------------------|---|---|--------|-------|--------------------|
| APCG 110 | Computer-Assisted Art I | 3 | LD | C1 | APCG 117 | Concept Design & Storyboarding | 3 | LD | |
| APCG 112 | Digital Photography | 3 | LD | | CDES 103 | Writing for Electronic Media | 3 | CD | |
| ENGL 130 | Academic Writing | 3 | A2 | | GE D | Behavioral and Social Sciences | 3 | D | |
| GE A4 | Mathematics | 3 | A4 | | GE E | Lifelong Learning | 3 | E | |
| GE A13 | Oral Communication or Critical Thinking | 3 | A1/A3 | | GE A13 | Oral Communication or Critical Thinking | 3 | A1/A3 | |
| Semester Total | | 15 | | | Semester Total | | 15 | | |
| Third Semester | | | | Fourth Semester | | | | | |
| APCG 240 | 2-D Digital Animation | 3 | LD | APCG 330 | 3-D Computer Modeling | 3 | UD | | |
| CSCI 111 | Programming and Algorithms I | 4 | Tech | CSCI 211 | Programming & Algorithms II | 4 | Tech | | |
| CDES 141 | Media Aesthetics | 3 | CD | CDES Elective | CDES Elective (see reverse side) | 3 | CD | | |
| GE B | Physical Universe or Life Forms | 3 | B | GE B | Physical Universe or Life Forms | 3 | B | | |
| GE D | Behavioral and Social Sciences | 3 | D | GE C23 | Arts and Humanities | 3 | C2/C3 | | |
| Semester Total | | 15 | | | Semester Total | | 15 | | |
| Fifth Semester | | | | Sixth Semester | | | | | |
| APCG 331 | 3-D Character Modeling | 3 | UD | APCG 340 | Computer Animation | 3 | UD | | |
| APCG Elective | APCG Elective (see reverse side) | 3 | Tech | APCG 345 | Adv Animation Pre-Production | 3 | UD | | |
| CSCI 311 | Algorithms and Data Structures | 4 | Tech | CDES Elective | CDES Elective (see reverse side) | 3 | CD | | |
| GE C23 | Arts and Humanities | 3 | C2/C3 | HIST 130 | United States History | 3 | Hist | | |
| GE D | Behavioral and Social Sciences | 3 | D | Theme 1 | General Education Theme | 3 | Theme | | |
| Semester Total | | 15 | | | (Apply for graduation 1 year in advance) Semester Total | | 15 | | |
| Seventh Semester | | | | Eighth Semester | | | | | |
| APCG 445 | Advanced Animation Production | 3 | UD | APCG 545 | Adv Animation Post-Production | 3 | UD | | |
| CSCI 430 | Software Engineering | 3 | Tech | APCG Elective | APCG Elective (see reverse side) | 3 | Tech | | |
| APCG Elective | APCG Elective (see reverse side) | 3 | Tech | | | | | | |
| CDES Elective | CDES Elective (see reverse side) | 3 | CD | POLS 155 | American Government | 3 | US Gov | | |
| Theme 2 | General Education Theme | 3 | Theme | Theme 3 | General Education Theme | 3 | Theme | | |
| Semester Total | | 15 | | | Semester Total | | 15 | | |

¹For General Education (GE) refer to GE planning sheet; consider taking a Course Link in your first semester; consider meeting Ethnic and Non-Western requirements with GE.

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Applied Computer Graphics Core

| Course | Description | Units |
|--------------------------------------|--------------------------------|-------|
| APCG Core (10 courses) | | 30 |
| APCG 110 | Computer-Assisted Art I | 3 |
| APCG 112 | Digital Photography | 3 |
| APCG 117 | Concept Design & Storyboarding | 3 |
| APCG 240 | 2-D Digital Animation | 3 |
| APCG 330 | 3-D Computer Modeling | 3 |
| APCG 331 | 3-D Character Modeling | 3 |
| APCG 340 | Computer Animation | 3 |
| APCG 345 | Adv Animation Pre-Production | 3 |
| APCG 445 | Advanced Animation Production | 3 |
| APCG 545 | Adv Animation Post-Production | 3 |
| Total Applied Computer Graphics Core | | 30 |

Technical Option

| Course | Description | Units |
|--|---------------------------------------|-------|
| Required Courses (6 courses) | | 15 |
| CSCI 111 | Programming and Algorithms I | 4 |
| CSCI 211 | Programming & Algorithms II | 4 |
| CSCI 311 | Algorithms and Data Structures | 4 |
| CSCI 330 | Software Engineering | 3 |
| Applied Computer Graphics Electives (3 courses)* | | 9 |
| APCG 170 | Video Game Design | 3 |
| APCG 360 | Web Page Design | 3 |
| APCG 370 | Video Game Development | 3 |
| APCG 420 | Digital Lighting and Texturing | 3 |
| APCG 422 | Digital Compositing & Special Effects | 3 |
| APCG 441 | 3-D Character Animation | 3 |
| APCG 470 | Video Game Production | 3 |
| APCG 495 | Advanced Production | 3 |
| CSCI 467 | Graphical User Interface Des | 3 |
| CSCI 566 | Computer Graphics Programming | 3 |
| CSCI 567 | Graphical User Interface Impl | 3 |
| CSCI 580 | Artificial Intelligence | 3 |
| KINE 318 | 3-D Desktop Video Applications | 3 |
| THEA 112 | Acting for Non-Majors | 3 |
| THEA 371 | Lighting Design | 3 |
| Total Technical Option | | 24 |

Communication Design Program (CD)

| Course | Description | Units |
|----------------------------------|-------------------------------|-------|
| CD Required Courses (2 courses) | | 6 |
| CDES 103 | Writing for Electronic Media | 3 |
| CDES 141 | Media Aesthetics | 3 |
| CD Selections (3 Courses) | | 9 |
| CDES 214 | Computer Graphics | 3 |
| CDES 216 | Intro: Digital Audio in Media | 3 |
| CDES 222 | Intro to WWW Design & Pub | 3 |
| CDES 261 | Found of Electronic Media | 3 |
| CDES 314 | Intro Multimedia Dsgn & Dev | 3 |
| CDES 322 | Advanced WWW Design & Publish | 3 |
| CDES 323 | Human Interface Design | 3 |
| CDES 333 | Graphic Visualization | 3 |
| CDES 366 | Field Video Production | 3 |
| CDES 414 | Adv Multimedia Dsgn & Develop | 3 |
| CDES 466 | Studio Video Production | 3 |
| CDES 468 | Video Production Workshop | 3 |
| Total Communication Design Units | | 15 |

Double Counted Units

| | | | |
|----------------------|--------------------------------|--------------|---|
| APCG 110 | <i>Computer-Assisted Art I</i> | APCG & GE C1 | 3 |
| Total Double Counted | | | 3 |

Unit Summary

| | |
|----------------------------------|-----|
| APCG Core Requirements | 30 |
| Technical Option | 24 |
| Communication Design Program | 15 |
| Lower Division General Education | 39 |
| Upper Division General Education | 9 |
| American Institutions | 6 |
| Double Counted | -3 |
| Electives | 0 |
| Total Degree | 120 |

*NOTE: Select a minimum of two upper division courses