

**Departmental/Program Major Courses (41 credits)**

**Required Major Courses (35 credits)**

- \_\_\_\_\_ (2) CGT 10101 – Foundations of Computer Graphics Technology
- \_\_\_\_\_ (3) CGT 11600 – Geometric Modeling for Visualization and Communication
- \_\_\_\_\_ (3) CGT 11800 – Fundamentals of Imaging Technology
- \_\_\_\_\_ (3) CGT 14100 – Internet Foundations, Development & Technologies
- \_\_\_\_\_ (3) CGT 21500 – CG Programming I
- \_\_\_\_\_ (3) CGT 24100 – Intro to Computer Animation
- \_\_\_\_\_ (3) CGT 25600 – Human Computer Interface Theory & Design
- \_\_\_\_\_ (3) CGT 34000 – Digital Lighting & Rendering for Computer Animation
- \_\_\_\_\_ (3) CGT 34500 – Game & Simulation Development
- \_\_\_\_\_ (3) CGT 41100 – Contemporary Problems in Applied CGT
- \_\_\_\_\_ (3) CGT 44500 – Video Game Design & Development
- \_\_\_\_\_ (3) CGT 45000 – Professional Practices

**Major Selectives\* - Select 2 of the following courses (6 credits)**

<http://www.tech.purdue.edu/CGT/academics/coursepages.cfm>

- \_\_\_\_\_ (3) CGT Selective
- \_\_\_\_\_ (3) CGT Selective

**Other Departmental /Program Course Requirements (28 credits)**

- \_\_\_\_\_ (3) COM 11400 – Speech Communication (*satisfies Oral Communication for core*)
- \_\_\_\_\_ (3) ECON 21000 – Principles of Economics (*satisfies Human Culture Behavior/Social Science for core*)
- \_\_\_\_\_ (3) ENGL 10600 or ENGL 10800 (*satisfies Written Communication for core*)
- \_\_\_\_\_ (3) MA 15800 – PreCalculus (*satisfies Quantitative Reasoning Selective for core*)
- \_\_\_\_\_ (3) MA 16010 – Applied Calculus I (*satisfies Quantitative Reasoning Selective for core*)
- \_\_\_\_\_ (3) MGMT 45500 – Legal Background For Business I
- \_\_\_\_\_ (4) PHYS 21800 – General Physics (*satisfies Science Selective for core*)
- \_\_\_\_\_ (3) PSY 12000 – Elementary Psychology (*satisfies Human Culture Behavioral/Social Science for core*)
- \_\_\_\_\_ (3) TECH 12000 – Design Thinking (*satisfies Information Literacy AND Science, Technology & Society Selective for core*)

**Electives (51 credits)**

_____ (3) <i>Human Behavior</i> <i>Humanities for</i> <i>core</i>	_____ (3) <i>Science Selective</i> <i>for core</i>	_____ (3) Humanities Elective	_____ (3) Humanities Elective
_____ (3) Technical Elective	_____ (3) Technical Elective	_____ (3) Technical Elective	_____ (3) Advanced English Selective
_____ (3) Statistics Selective	_____ (3) Management Elective	_____ (3) Communication Selective	_____ (3) CGT Global Selective
_____ (3) Free Elective	_____ (3) Free Elective	_____ (3) Free Elective	_____ (3) Free Elective
_____ (3) Free Elective	_____ (3) Free Elective	_____ (3) Free Elective	_____ (3) Free Elective

**University Core Requirements**

<i>Human Cultures Humanities</i>	<input type="checkbox"/>	<i>Science, Technology &amp; Society</i>	<input type="checkbox"/>
<i>Human Cultures Behavioral/Social Science</i>	<input type="checkbox"/>	<i>Selective</i>	<input type="checkbox"/>
<i>Information Literacy</i>	<input type="checkbox"/>	<i>Written Communication</i>	<input type="checkbox"/>
<i>Science Selective</i>	<input type="checkbox"/>	<i>Oral Communication</i>	<input type="checkbox"/>
<i>Science Selective</i>	<input type="checkbox"/>	<i>Quantitative Reasoning</i>	<input type="checkbox"/>

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**The student is ultimately responsible for knowing and completing all degree requirements.**

**myPurduePlan is knowledge source for specific requirements and completion**

**Computer Graphics Technology – Game Studies (GASD)**  
<https://tech.purdue.edu/degrees/computer-graphics-technology/plan-of-study>

Name:  
PUID:

**Suggested Arrangement of Courses:**

Cr	Fall 1st Year	Prerequisite	Cr	Spring 1st Year	Prerequisite
2	CGT 10101 Foundations of CGT	Major	3	CGT 11600 Geo Mdl Visual & Comm	Major
3	CGT 11800 Fund. Of Imaging Tech*	Major	3	CGT 14100 Internet Fdtn Dev & Tech	Major
3	TECH 12000 Design Thinking *		3	COM 11400 Speech Communication*	
3	English Selective*		3	PSY 12000 Elem. Psychology*	
3	MA 15800 Precalculus*	ALEKS 60%	3	MA 16010 Applied Calculus I*	MA 158 or ALEKS 75%
<b>14</b>			<b>15</b>		

Cr	Fall 2nd Year	Prerequisite	Cr	Spring 2nd Year	Prerequisite
3	CGT 21500 CG Programming I	CGT 141 & Conc MA 16010	3	CGT 24100 – Intro to Computer Animation	
3	Human Behr: Human Core*		3	CGT 25600 Human Computer Interface	
4	PHYS 21800 Gen Physics*		3	Science Foundational Selective Core*	
3	Free Elective		3	ECON 21000 Principles of Econ	
3	Technical Elective		3	Free Elective	
<b>16</b>			<b>15</b>		

Cr	Fall 3rd Year	Prerequisite	Cr	Spring 3rd Year	Prerequisite
3	CGT 34000 Digital Light & Rendering	CGT 24100	3	CGT 44500 Video Game Desg & Devl	CGT 34500
3	CGT 34500 Game & Sim Develop	CGT 24100	3	CGT Selective	
3	Humanities Elective		3	CGT Globalization Selective	
3	Advanced English Selective	ENGL 106 or 108	3	Statistics Selective	
3	Free Elective		3	Management Selective	
<b>15</b>			<b>15</b>		

Cr	Fall 4th Year	Prerequisite	Cr	Spring 4th Year	Prerequisite
3	CGT Selective		3	CGT 45000 Professional Practice	SR Standing
3	Humanities Elective		3	CGT 41100 Contemp Prob in CGT	SR Standing
3	Free Elective		3	Free Elective	
3	MGMT 45500 Leg. Backgrd for Bus I		3	Communication Selective	
3	Technical Elective		3	Technical Elective	
<b>15</b>			<b>15</b>		

\*Satisfies a University Core Requirement

Students must earn a "C-" or better in all CGT courses.  
**120 semester credits required for Bachelor of Science degree.**  
**2.0 Graduation GPA required for Bachelor of Science degree.**

Purdue policy states that a student may attempt a course no more than three (3) times. An attempt is defined as all courses displayed on a student's transcript including, but not limited to A,B,C,D,E,F,W,WF,I and IF

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## SUPPLEMENTAL CGT INFORMATION

### CGT SELECTIVES:

#### 10000 Selective

CGT 11600 Geometric Modeling for Visualization and Communication

#### Product Lifecycle Management

CGT 22600 Intro to Constraint-Based Modeling (CGT 116, 110, or 163)

CGT 32600 Graphic Standards for Product Definition (CGT 226) (SP)

CGT 42300 Product Data Management (CGT 226) (SP)

CGT 42600 Industry Applications of Simulation & Visualization (CGT 226) (FA)

#### Computer Animation

CGT 24100 Intro to Computer Animation (CGT 116)

CGT 34000 Digital Lighting & Rendering for Computer Animation (CGT 241)

CGT 34100 Motion for Computer Animation (CGT 340)

CGT 34600 Digital Video & Audio

CGT 44200 Production for Computer Animation (CGT 341) (FA)

CGT 44600 Post-Production & Special Effects for Computer Animation (CGT 241 & Senior Standing) (SP)

#### Construction Graphics

CGT 26200 Intro to Construction Graphics (FA)

CGT 36000 Applications of Construction Documentation 1 (CGT 262) (SP)

CGT 46000 Building Information Modeling for Commercial Construction (CGT 360) (SP)

CGT 46200 Applications of Construction Documentation 2 (CGT 360) (FA)

#### Web Programming, Gaming & Design

CGT 25600 Human Computer Interface Theory & Design (SP)

CGT 34500 Game & Simulation Development (MA 153 or higher, CGT 241, & CGT 215, CS 180, or CNIT 267) (FA)

CGT 35300 Principles of Interactive & Dynamic Media (Co-Req CGT 356) (FA)

CGT 35600 Web Programming, Development, & Data Integration (CGT 215, CNIT 267, or CS 180)

CGT 44500 Video Game Design & Development (CGT 245 or 345) (SP)

CGT 45600 Advanced Web Programming, Development, & Data Integration (CGT 356) (SP)

**TECHNICAL ELECTIVE:** Any course within the College of Technology, Engineering, Management, or Science.

### HUMAN CULTURES: HUMANITIES CORE:

See <http://www.purdue.edu/provost/initiatives/curriculum/course.html> for approved Humanities Core Courses.

### COMMUNICATION SELECTIVE:

COM 30000 or 40000 level

### ADVANCED ENGLISH SELECTIVE

ENGL 20500 Introduction to Creative Writing

ENGL 30400 Advanced Composition ENGL

ENGL 41900 Multimedia Writing

ENGL 42000 Business Writing

42100 Technical Writing

### SCIENCE FOUNDATIONAL SELECTIVE CORE:

See <http://www.purdue.edu/provost/initiatives/curriculum/course.html> for approved Science Core Courses.

### STATISTICS SELECTIVE:

STAT 22500 Introduction to Probability Models

STAT 30100 Elementary Statistical Methods

PSY 20100 Introduction to Statistics in Psychology

IT 34200 Introduction to Statistical Quality

### MANAGEMENT SELECTIVE:

Any course in Organizational Leadership & Supervision (OLS), Management (MGMT), Economics (ECON), Entrepreneurship (ENTR), or Organizational Behavior & Human Resources (OBHR)

## **CGT GLOBALIZATION SELECTIVE:**

AD 25500 Art Appreciation  
AD 45400 Modern Architecture  
AGEC 25000 Econ. Geography of World Food  
ANTH 10000 Introduction to Anthropology  
ANTH 20500 Human Cultural Diversity  
ANTH 21200 Culture, Food, and Health  
ANTH 23000 Gender Across Culture  
ANTH 31200 The Archaeology of Ancient Egypt  
ANTH 32700 Environment and Culture  
ANTH 33600 Human Variation  
ANTH 38000 Using Anthropology in the Word  
ARAB 23000 Arabic Literature in Translation  
ASAM 24000 Intro to Asian American Studies  
ASAM 34000 Contemp. Issues in Asian America  
CHNS 28000 Topics in Chinese Civiliz. & Culture  
CLCS 18100 Classical World Civilizations  
CLCS 23100 Survey of Latin Literature  
CLCS 28000 Topics in Classic Civilizations  
CLCS 38500 Sci, Med, and Magic in Ancient West  
CMPL 23000 Intro to Comparative Literature  
CMPL 26600 World Lit to 1700 A D  
CMPL 26700 World Lit from 1700 to now  
COM 22400 Com in the Global Workplace  
COM 30300 Intercultural Communication  
EAPS 37500 Fossil Fuels, Energy, and Society  
EEE 35500 Eng Environmental Sustainability  
ENGL 23000 Great Narrative Works  
ENGL 24000 British Lit Through 18th Century  
ENGL 24100 Brit Lit From Romantic. to Modern  
ENGL 26600 World Literature to 1700 A D  
ENGL 26700 World Literature 1700 to now  
ENGL 34100 Topics in Sci, Lit, and Culture  
FNR 10300 Intro to Environm. Conservation  
HDFS 28000 Diversity in Individ. & Family Life  
HEBR 28000 Modern Israel: Cinema, Lit, ect.  
HEBR 28400 Ancient Near E Hist and Culture  
HIST 10300 Intro to the Medieval World  
HIST 10400 Intro to the Modern World  
HIST 10500 Global History  
HIST 20400 East Asia in the Modern World  
HIST 24100 East Asia in the Modern World  
HIST 24300 South Asian History and Civilization  
HIST 24500 Middle East History and Culture  
HIST 25000 US Relations, Mid. East & N. Africa  
HIST 27200 Latin American History from 1824  
HIST 31700 History of the Christian Church I  
HIST 32900 Women in Modern Europe  
HIST 33400 Sci & Tech in West. Civilization II  
HIST 34200 Africa and the West  
HIST 35100 Second World War  
HIST 36100 Violence in Africa  
HIST 37500 US Women Since 1870  
JPNS 28000 Intro to Modern Japanese Civilization  
JWST 33000 Intro to Jewish Studies  
LC 23500 East Asian Literature  
LC 23900 Contemporary Foreign Women Writers  
PHIL 11400 Global Morals Issues  
PHIL 20600 Philosophy of Religion  
PHIL 21900 Intro to Existentialism  
PHIL 24000 Social & Political Philosophy  
PHIL 24200 Phil, Culture & African American Exp  
PHIL 27000 Biomedical Ethics  
PHIL 29000 Environmental Ethics  
PHIL 33000 Religions of the East  
PHIL 33100 Religions of the West  
POL 13000 Intro to International Relations  
POL 14100 Governments of the World  
POL 22200 Women, Politics and Public Policy  
POL 2300 Intro to the Study of Peace  
POL 23100 Intro to US Foreign Policy  
POL 23500 Rich and Poor Nations  
POL 23700 Modern Weapons & International Relatns  
POL 30400 Israel and World Politics  
POL 32700 Green Global Politics  
POL 34200 Govt and Politics in the Communist Successor States  
POL 34500 West European Democracies in the Post-Industrial Era  
POL 34800 East Asian Politics  
SOC 33800 Global Social Movements  
SOC 33900 Introduction to Sociology of Developing Nations  
TECH 33000 Tech & the Global Society  
Any foreign language course of 201, 202, 301, 302, 401, 402, or 235  
Any Study Abroad experience on your Purdue Transcript

## **Departmental Policy**

It is the responsibility of each student to assure that he or she fulfills the necessary pre-requisites and courses to meet graduation requirements. Questions may be directed to a CGT advisor.

Each student must have 32 credit hours of 300- or 400-level Purdue courses for graduation.

## **MINORS APPROVED BY CGT FACULTY**

Art & Design (ARTS) <http://www.cla.purdue.edu/academics/programs/pos/MARTD201210.pdf>  
Building Construction Management (BCMT) <http://www.tech.purdue.edu/bcm/academics/undergraduate/bcm-minor/>  
Computer & Information Technology (CNIT) <http://www.tech.purdue.edu/cit/academics/undergraduate/curricula/documents/minors-worksheet.pdf>  
Computer Science (CS) [http://www.cs.purdue.edu/academic\\_programs/undergraduate/curriculum/minor/index.sxhtml](http://www.cs.purdue.edu/academic_programs/undergraduate/curriculum/minor/index.sxhtml)  
Film/Video Studies (FILV) <http://www.cla.purdue.edu/academics/programs/pos/MFILV201010.pdf>  
Mathematics (MATH) [http://www.math.purdue.edu/academic/files/undergrad/math\\_minor.pdf](http://www.math.purdue.edu/academic/files/undergrad/math_minor.pdf)  
Management (MGMT) <http://www.krannert.purdue.edu/undergraduate/current-students/MGMT%20Minor%20Requirements.pdf>  
Organizational Leadership & Supervision (OLSV) [http://www.tech.purdue.edu/TLI/academics/undergraduate/OLS/ols\\_minors.cfm](http://www.tech.purdue.edu/TLI/academics/undergraduate/OLS/ols_minors.cfm)  
Psychology (PSY) [http://www.purdue.edu/hhs/psy/undergraduate/majors\\_req\\_courses/index.php](http://www.purdue.edu/hhs/psy/undergraduate/majors_req_courses/index.php)  
Foreign Language: Choose a language from this page <http://www.cla.purdue.edu/academics/programs/minors/>