

Departmental/Program Major Courses (38 credits)

Required Major Courses (20 credits)

- _____ (2) CGT 10101 – Foundations of Computer Graphics Technology
- _____ (3) CGT 14100 – Internet Foundations, Development & Technologies
- _____ (3) CGT 21100 – Raster Imaging for CGT
- _____ (3) CGT 21500 – CG Programming I
- _____ (3) CGT 21600 – Vector Imaging for CGT
- _____ (3) CGT 41100 – Contemporary Problems in Applied CGT
- _____ (3) CGT 45000 – Professional Practices

Major Selectives* - Select 6 of the following courses (18 credits)

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

- _____ (3) CGT 10000 – 100 Level Selective (CGT 11100 or CGT 11600)
- _____ (3) CGT Selective
- _____ (3) CGT Selective
- _____ (3) CGT Selective
- _____ (3) CGT Selective – 300 Level Selective
- _____ (3) CGT Selective – 400 Level Selective

Other Departmental /Program Course Requirements (34 credits)

- _____ (3) COM 11400 – Speech Communication (*satisfies Oral Communication for core*)
- _____ (3) ECON 21000 – Principles of Economics (*satisfies Human Culture Behavioral/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 22100 – Calculus for Technology 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*)
- _____ (3) TECH 32000 – Technology & Organization
- _____ (3) TECH 33000 – Technology & Global Society

Electives (48 credits)

_____ (3) <u>Human Cultures Humanities for core</u>	_____ (3) <u>Science Selective for core</u>	_____ (3) <u>Humanities Elective</u>	_____ (3) <u>Humanities Elective</u>
_____ (3) <u>Technical Elective</u>	_____ (3) <u>Technical Elective</u>	_____ (3) <u>Technical Elective</u>	_____ (3) <u>Advanced English Selective</u>
_____ (3) <u>Statistics Selective</u>	_____ (3) <u>Management Elective</u>	_____ (3) <u>Communication Selective</u>	_____ (3) <u>Free Elective</u>
_____ (3) <u>Free Elective</u>	_____ (3) <u>Free Elective</u>	_____ (3) <u>Free Elective</u>	_____ (3) <u>Free Elective</u>

University Core Requirements

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

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

myPurduePlan is knowledge source for specific requirements and completion

Computer Graphics Technology

link to plan of study

Suggested Arrangement of Courses:

Cr	Fall 1st Year	Prerequisite	Cr	Spring 1st Year	Prerequisite
2	CGT 10101 Foundations of CGT	Major	3	CGT 10000 Selective (10000 Level)	Major
3	TECH 12000 Design Thinking*	Major	3	CGT 14100 Internet Fdtn Dev & Tech	Major
3	PSY 12000 Elem. Psychology*		3	COM 11400 Speech Communication*	
3	English Selective*		3	Humanities Elective	
3	MA 15800 Precalculus*	ALEKS 50%	3	MA 22100 Calculus for Tech I*	MA 158 or ALEKS 65%
14			15		

Cr	Fall 2nd Year	Prerequisite	Cr	Spring 2nd Year	Prerequisite
3	CGT 21100 Raster Imaging for CGT	Major	3	CGT 21600 Vector Imaging for CGT	Major
3	CGT 21500 CG Programming I	CGT 141 & Conc MA 221	3	CGT Selective	
4	PHYS 21800 General Physics*		3	Science Foundational Selective*	
3	Free Elective		3	ECON 21000 Principles of Econ	
3	Technical Elective		3	Free Elective	
16			15		

Cr	Fall 3rd Year	Prerequisite	Cr	Spring 3rd Year	Prerequisite
3	CGT Selective		3	CGT Selective (30000 Level)	
3	CGT Selective		3	Humanities Foundational Selective*	
3	TECH 32000 Tech & Organization	TECH 12000	3	TECH 33000 Tech & Global Society	TECH 12000
3	Advanced English Selective	ENGL 106 or 108	3	Statistics Selective	
3	Free Elective		3	Management Selective	
15			15		

Cr	Fall 4th Year	Prerequisite	Cr	Spring 4th Year	Prerequisite
3	CGT Selective (40000 Level)		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	
15			15		

*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.

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

myPurduePlan is knowledge source for specific requirements and completion

SUPPLEMENTAL CGT INFORMATION

CGT SELECTIVES:

10000 Selective

CGT 11100 Designing for Visualization and Communication
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 & Co-Req CGT 211)
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 (Senior Standing) (SP)

Construction Graphics

CGT 26200 Intro to Construction Graphics
CGT 36000 Applications of Construction Documentation 1 (CGT 26200) (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 (CGT 111 & Co-Req CGT 211) (SP)
CGT 30800 Pre Press Production (CGT 111) (FA)
CGT 34500 Game & Simulation Development (MA 153 or higher, & CGT 215, CS 180, or CNIT 267) (FA)
CGT 35300 Principles of Interactive & Dynamic Media (CGT 216 & Co-Req CGT 356)
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.

HUMANITIES FOUNDATIONAL SELECTIVE:

See <http://www.purdue.edu/senate/documents/curriculum/ApprovedFall2013Courses.pdf> for approved Humanities Core Courses.

COMMUNICATION SELECTIVE:

COM 30000 or 40000 level

SCIENCE FOUNDATIONAL SELECTIVE:

See <http://www.purdue.edu/senate/documents/curriculum/ApprovedFall2013Courses.pdf> 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)

TECH & GLOBAL SOCIETY:

COM 30300 Intercultural Communication
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 27200 Latin American History from 1824
HIST 34200 Africa and the West
JPNS 28000 Intro to Modern Japanese Civilization
POL 13000 Intro to International Relations
POL 14100 Governments of the World
POL 23100 Intro to US Foreign Policy

POL 23500 International Relations Among Rich and Poor Nations
POL 30400 Israel and World Politics
POL 34200 Government 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, 303, 401, 402, or 235
Any Study Abroad experience on your Purdue Transcript

ADVANCED ENGLISH SELECTIVE

ENGL 20500 Introduction to Creative Writing
ENGL 30400 Advanced Composition
ENGL 41900 Multimedia Writing

ENGL 42000 Business Writing
ENGL 42100 Technical Writing

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.shtml
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
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
Psychology (PSY) 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/>