

Departmental/Program Major Courses (41 credits)

Required Major Courses (17 credits)

- _____ (2) CGT 10101 – Foundations of Computer Graphics Technology
- _____ (3) CGT 11800 – Fundamentals of Imaging Technology
- _____ (3) CGT 14100 – Internet Foundations, Development & Technologies
- _____ (3) CGT 21500 – CG Programming I (*CNIT 17500)
- _____ (3) CGT 41100 – Contemporary Problems in Applied CGT
- _____ (3) CGT 45000 – Professional Practices

Major Selectives (24 credits)

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

- _____ (3) CGT 10000 – 100 Level Selective (CGT 11100 or CGT 11600)
- _____ (12) CGT Selective
- _____ (6) CGT Selective – 300 or 400 Level Selective
- _____ (3) CGT Selective – 400 Level Selective

Other Departmental /Program Course Requirements (28 credits)

- _____ (3) COM 11400 – Speech Communication (*SPCH-S 121) (satisfies Oral Communication for core)
- _____ (3) ECON 21000 – Principles of Economics (*ECON-E 103 or *ECON-E 104) (satisfies Human Cultures Behavioral/Social Science for core)
- _____ (3) ENGL 10600 or ENGL 10800 (*ENG-W 131) (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 (*BUS-L 203)
- _____ (4) PHYS 21800 – General Physics (*PHYS-P 201) (satisfies Science Selective for core)
- _____ (3) PSY 12000 – Elementary Psychology (*PSY-P 103) (satisfies Human Cultures Behavioral/Social Science for core)
- _____ (3) TECH 12000 – Design Thinking (satisfies Information Literacy AND Science, Technology & Society Selective for core)

Electives (51 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>CGT Global 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>			

*Denotes Richmond Campus Course Offering

University Core Requirements

Human Cultures Humanities	□	Science, Technology & Society Selective	□	TECH 12000
Human Cultures Behavioral/Social Science	□	Written Communication	□	ENGL 10600 or 10800 (*ENG-W 131)
Information Literacy	□	Oral Communication	□	COM 11400 (*SPCH-S 121)
Science Selective	□	Quantitative Reasoning	□	MA 15800
Science Selective	□			

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

myPurduePlan is knowledge source for specific requirements and completion.

Computer Graphics Technology

Suggested Arrangement of Courses:

Cr	Fall 1st Year	Prerequisite	Cr	Spring 1st Year	Prerequisite
3	English Selective* ENG-W 131 (IUE)	Placement	3	COM 11400 Speech Communication* SPCH-S 121 (IUE)	
3	MA 15800 Precalculus*	Placement	3	Human Cultures Humanities Core*	
2	CGT 10101 Foundations of CGT		3	CGT 14100 Internet Fdtn Dev & Tech	
3	CGT 11100 Design for Vis & Com [CGT 100 Level Selective]		3	CGT 11600 Geo Modeling for Vis & Com [CGT Selective]	
3	TECH 12000 Design Thinking *		3	PSY 12000 Elem. Psychology* PSY-P 103 (IUE)	
3	Free Elective				
17			15		

Cr	Fall 2nd Year	Prerequisite	Cr	Spring 2nd Year	Prerequisite
3	CGT 21500 CG Programming I CNIT 17500 Visual Programming		3	MA 16010 Applied Calculus I*	MA 15800
3	CGT 11200 Sketching for Vis & Com [CGT Selective]		3	CGT 39000 Digital Photography [CGT Selective]	CGT 11800
3	CGT 11800 Fundamentals of Imaging Technology		3	ECON 21000 Principles of Econ * ECON-E 103 or ECON-E 104 (IUE)	
3	CGT 24100 Intro to Comp Animation [Technical Elective]	CGT 11600	3	MGMT 45500 Leg Background for Bus I BUS-L 203 Commercial Law I (IUE)	
4	PHYS 21800 Gen Physics* PHYS-P 201, 5 cr (IUE)	MA 15800	3	Science Foundational Selective Core*	
16			15		

Cr	Fall 3rd Year	Prerequisite	Cr	Spring 3rd Year	Prerequisite
3	Advanced English Selective ENGL 42100 Technical Writing or ENG-W 231 Prof Writ Skills (IUE)	ENG-W 131 (IUE)	3	CGT 30800 Prepress Prod & Des or CGT 11000 Technical Graphics [Technical Elective]	CGT 11100
3	CGT 25600 Human Computer Interface Theory & Design [CGT Selective]	CGT 11100, CGT 11800	3	CGT 30900 Internship in CGT or CGT 22600 Intro to Constr-Based Model [Technical Elective]	JR Standing CGT 11000 or 11600
3	CGT 32100 Advanced Illustration [CGT Selective 300 or 400 Level]	CGT 11800	3	CGT 35300 Princ of Int & Dyn Media or CGT 35600 Web Prog, Dev & Data Int [CGT Selective 300 or 400 Level]	CGT 21600 CNIT 17500
3	OLS 25200 Hum Relations in Organizations [Free Elective & TECH 32000 Alternative]		3	CGT Globalization Selective TECH 33000	TECH 12000
3	Statistics Selective MATH-K 300 or PSY-K 300 (IUE)	MATH-M 123 (IUE)	3	Free Elective [300 Level]	
15			15		

Cr	Fall 4th Year	Prerequisite	Cr	Spring 4th Year	Prerequisite
3	CGT 45600 Adv. Web Programming, Development, & Data Integration [CGT Selective 400 Level]	CGT 35600	3	CGT 41100 Contemporary Problems in Applied Computer Graphics	SR Standing
3	Communication Selective 300/400 CMCL/SPCH (IUE)	SPCH-S 121 (IUE)	3	CGT 45000 Professional Practices	SR Standing
3	Humanities Elective		3	Humanities Elective	
3	Free Elective		3	Management Selective OLS 38800 Leadership through Teams	OLS 25200
3	Free Elective				
15			12		

***Fulfills University Core**

- 1) Students must earn a "C-" or better in all CGT courses.
- 2) 120 credits listed above are required for the CGT Bachelor of Science degree.
- 3) 2.0 Graduation GPA required for Bachelor of Science degree.
- 4) 32 credits of upper division courses (30000 level or higher) must be taken at the Purdue location conferring the degree.
- 5) ANY COURSE TAKEN AT PURDUE CAN BE ATTEMPTED NO MORE THAN THREE TIMES (INCLUSIVE OF W, WF, I AND IF).

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

myPurduePlan is knowledge source for specific requirements and completion

SUPPLEMENTAL CGT INFORMATION

Bold indicates courses offered at Richmond Campus.

See Student Services Coordinator for course availability.

***Indicates IUE courses for Richmond Campus only.**

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 241, & 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** offered at the location, not already required/being used on the plan of study.

CGT 11000 Technical Graphics Communications

CGT 22600 Introduction to Constraint Based Modeling

CGT 24100 Introduction to Computer Animation

CGT 30800 Prepress Production And Design

CGT 30900 Internship in Computer Graphics Technology

HUMAN CULTURES: HUMANITIES CORE:

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

***ENGL-L 204**

***FINA-A 101, *FINA-A 102,**

***FINA-F 100, *FINA-H 100, *FINA-S 200**

***FREN-F 100, *FREN-F 150,**

***FREN-F 200, *FREN-F 250**

***HIST-H 105, *HIST-H 106**

***MUS-M 174, *MUS-T 101, *MUS-Z 393**

***PHIL-P 100, *PHIL-P 120, *PHIL-P 140**

***SPAN-S 100, *SPAN-S 150,**

***SPAN-S 200, *SPAN-S 250**

***THTR-T 210**

COMMUNICATION SELECTIVE:

COM 30000 or 40000 level

***300 or 400-level courses in *SPCH-S or *CMCL-C**

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

***ENG-W 231**

SUPPLEMENTAL CGT INFORMATION

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SCIENCE FOUNDATIONAL SELECTIVE CORE:

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

***BIOL-L 100, *BIOL-L 101 + *BIOL-L 102**

***CHEM-C 125 + *CHEM-C 105, *CHEM-C 126 + *CHEM-C 106**

***GEOL-G 111**

***PHYS-P 202**

STATISTICS SELECTIVE:

STAT 22500 Introduction to Probability Models

STAT 30100 Elementary Statistical Methods

***MATH-K 300**

PSY 20100 Introduction to Statistics in Psychology

IT 34200 Introduction to Statistical Quality

***PSY-K 300**

MANAGEMENT SELECTIVE:

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

OLS 38800 Leadership through Teams

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.

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

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/>