Computer Graphics Technology
Purdue Polytechnic Institute
Name:
PUID:

TCGT-BS
Catalog Term: 201610
120 Credit Hours to Graduate
"C-"or better required in all major courses

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 (CSCI-A201*IU or CSCI-C201*IU)
- (3) CGT 41100 – Contemporary Problems in Applied CGT
- (3) CGT 45000 – Professional Practices

Major Selectives* - Select 8 of the following courses (24 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
- (3) CGT Selective – 300 or 400 Level Selective
- (3) CGT Selective – 300 or 400 Level Selective
- (3) CGT Selective – 400 Level Selective

Other Departmental /Program Course Requirements (29 credits)
- (3) COM 11400 (SPCH-S121*IU) – Speech Communication *(satisfies Oral Communication for core)*
- (3) ECON 21000 (ECON-E101*IU) – Principles of Economics
- (3) ENGL 10600 (ENG-W131*IU) *(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 (BUS-L201*IU) – Legal Background For Business I
- (4) PHYS 21800 (or PHYS-P201*IU) – General Physics *(satisfies Science Selective for core)*
- (3) PSY 12000 (PSY-P101*IU) – 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)	*Human Behavior Humanities for core*	(3)	*Science Selective for core*	(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						

*Denotes New Albany Campus Course Offering

University Core Requirements

Human Cultures Humanities	☐	*Science, Technology & Society Selective*	☐
Human Cultures Behavioral/Social Science	☐	*Written Communication*	☐
Information Literacy	☐	*Oral Communication*	☐
Science Selective	☐	*Quantitative Reasoning*	☐
Science Selective	☐		

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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

PURDUE UNIVERSITY

Computer Graphics Technology

Name: _____

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Suggested Arrangement of Courses:

Cr		Fall 1st Year	Prerequisite	Cr		Spring 1st Year	Prerequisite
2		**CGT 10101** Foundations of CGT	Major	3		**CGT 11100** Selective (10000 Level)	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* **(SPCH-S121*IU)**	
3		English Selective* **(ENG-W131*IU)**		3		PSY 12000 Elem. Psychology* **(PSY-P101*IU)**	
3		**MA 15800** Precalculus*	ALEKS 60%	3		**MA 16010** Applied Calculus I*	MA 158 or ALEKS 75%
14				**15**			

Cr		Fall 2nd Year	Prerequisite	Cr		Spring 2nd Year	Prerequisite
3		CGT 21500 CG Programming I **(CSCI-A201*IU or CSCI-C201*IU)**	CGT 141 & Conc MA 16010	3		**CGT Selective**	
3		Human Behavior: Human Core*		3		**CGT Selective**	
4		PHYS 21800 Gen Physics* **(PHYS-P201*IU)**		3		Science Foundational Selective Core*	
3		Free Elective		3		ECON 21000 Principles of Econ **(ECON-E101*IU)**	
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 or 40000 Level)**	
3		**CGT Selective**		3		**CGT Selective (30000 or 40000 Level)**	
3		Humanities Elective		3		**CGT Globalization Selective**	
3		Adv English Sel **(ENG-W234*IU)**	ENGL 106 or 108	3		Statistics Selective **(MATH-K300*IU)**	
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 **(BUS-L201*IU)**		3		Communication Selective **(SPCH-S229*IU)**	
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.
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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Revised 3/2015 (effective Fall 2015)

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SUPPLEMENTAL CGT INFORMATION

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Bold indicates courses offered at New Albany campus.

(*) Indicates IU Southeast course for New Albany campus only (See Student Services Coordinator for availability.)

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, Engineering, Management, or Science.

HUMAN CULTURES: HUMANITIES CORE:
See http://www.purdue.edu/provost/initiatives/curriculum/course.html for approved Humanities Core Courses.
*ENG-L104, FINA-F100, HIST-H105, HIST-H106, MUS-M174

COMMUNICATION SELECTIVE:
COM 30000 or 40000 level **(*SPCH-S229)**

ADVANCED ENGLISH SELECTIVE

ENGL 20500 Introduction to Creative Writing	ENGL 42000 Business Writing **(*ENG-W231)**
ENGL 30400 Advanced Composition ENGL	ENGL 42100 Technical Writing **(*ENG-W234)**
ENGL 41900 Multimedia Writing	

SCIENCE FOUNDATIONAL SELECTIVE CORE:
See http://www.purdue.edu/provost/initiatives/curriculum/course.html for approved Science Core Courses.
*BIOL-L100, CHEM-C101, CHEM-C105/C125, GEOL-G100, PHYS-P201, PHYS-P202, PHYS-P218

STATISTICS SELECTIVE:

STAT 22500 Introduction to Probability Models	PSY 20100 Introduction to Statistics in Psychology
STAT 30100 Elementary Statistical Methods **(*MATH-K300)**	**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 (*FINA-H100)
AD 45400 Modern Architecture
AGEC 25000 Econ. Geography of World Food
ANTH 10000 Introduction to Anthropology
ANTH 20500 Human Cultural Diversity (*ANTH-E105)
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 (*ENG-L210)
ENGL 24100 Brit Lit From Romantic. to Modern
ENGL 26600 World Literature to 1700 A D
ENGL 26700 World Literature 1700 to now (*ENG-L102)
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-H206)
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-F342)
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-P281)
PHIL 21900 Intro to Existentialism
PHIL 24000 Social & Political Philosophy (*PHIL-P145)
PHIL 24200 Phil, Culture & African American Exp
PHIL 27000 Biomedical Ethics
PHIL 29000 Environmental Ethics (*PHIL-P237)
PHIL 33000 Religions of the East (*REL-R153)
PHIL 33100 Religions of the West (*REL-R152)
POL 13000 Intro to International Relations (*POLS-Y109)
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 & Internationl 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
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/