Computer Science

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Major Requirements

	Pre-Req	Units	Note
Lower Division Core Engineering Requirement **EGR101 Engineering from a Christian Worldview		3	Fall only
EGR102 Introduction to Engineering Design	-	4	Spring only
**EGR103 Engineering Service I	Coreq EGR101	1	Fall only
EGR121 Introduction to Computer Programming using C++	Prereq: MAT115	3	
EGR122 Visualization Languages I	-	3	
**EGR192 Engineering Seminar I	-	1	Spring only
***EGR202 Worldview Reflection I	-	0	Spring only
** Junior and Senior transfer students will complete ***Completion req'd for entrance to Computer Scien		stead.	
Upper Division Core Engineering Requirement	Pre-Req	Units	Note
EGR302 Engineering Design and Documentation	Pre EGR202;Co- EGR305	3	Fall only
EGR304 Leadership Cohort	Co- EGR302	1	Spring only
EGR305 Engineering Statistics	MAT245	2	Fall only
EGR306 Internship Preparation	Pre or Co- EGR202	1	Fall only
EGR390 Internship	-	0	As offered
EGR401 Capstone Design	Pre 302/352; Concur EGR302	3	Fall only
EGR402 Capstone Design and Presentation	Pre EGR401; Con EGR404, 406	3	Spring only
EGR404 Worldview Reflection II	-	0	Spring only
EGR405 Internship Report and Presentation	-	1	Fall only
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Math and Science Requirement	Pre-Req EGR221	Units	Note
CSC312 Algorithms	EGR221 MAT115 or EGR181	3	Spring only
EGR182 Intro Mathematics for EGR Applications	MATTIS or EGR181	4	T 11 1
EGR225 Discrete Structures I	- ECD 192	3	Fall only
MAT245 Analytical Geometry and Calculus I	EGR182 MAT245	4	
MAT255 Analytical Geometry and Calculus II	MAT245 or B in EGR182	4	
PHY201 Physics for Engineers I with Lab		-	
DUN/DUV Dessains for Englisher Handleh I als		4	
	PHY201	4	
PHY203 Physics for Engineers II with Lab Four (4) units of approved science	PHY201 -	4	
Four (4) units of approved science Cross Cultural Experience Requirement (Course cred	- lit not required)	4	
Four (4) units of approved science Cross Cultural Experience Requirement (Course cred	- lit not required)	4	ces in CoE.
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Four (4) units of approved science Cross Cultural Experience Requirement (Course cred Engineering students are required to complete an approved cross cultur Lower Division Computing Software Requirement EGR221 Data Structures EGR222 Software Engineering EGR223Human Computer Interaction EGR226 Operating Systems and Networking Upper Division Computing Software Requirement CSC311 Compiler Design and Languages CSC 413 Graphics and Visual Computing CSC 413 Information Security and Computer Forensics CSC 414 Intention Security and Computer Forensics CSC 414 Theory of Computation EGR 324 Engineering Economics EGR 325 Database Systems	- lit not required) al experience. List of appro Pre-Req CIS268 or EGR121 EGR222 EGR222 Pre-Req EGR221 EGR221 - EGR305 EGR305 EGR222 EGR222	4 ved experience 3 4 3 4 3 3 1 3 3 3 3 3 3 3 3 3 3 3 3 3	Note Fall only Fall only Spring only Spring only Notes Fall only Spring only Spring only Fall only Fall only Fall only Fall only Fall only Spring only
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General Education Requirements

Competency Requirements	Units	Note
English Competency	3	ENG113 required
Math Competency	3	MAT245 will fulfill
Technology	3	EGR305 will fulfill
Foreign Language I	3	EGR121 will fulfill
Foreign Language II	3	EGR122 will fulfill

If you are exempt from a Competency Requirement or need units to read 124 units, add those units to Add'l Elective Units Needed.

Core Curriculum	Units	Note
Behavioral Science	6	EGR304, 306 and 405 will fulfill 3 units
English Composition	3	ENG123 required
English or Film	3	EGR401 will fulfill
Communication Arts	3	EGR302 will fulfill
Art or Music	3	EGR102 will fulfill
Philosophy	3	
US History	3	
Non-US History	3	
Political Science	3	
Lab Science	4	PHY201 will fulfill
Science or Kinesiology	4	PHY203 will fulfill
Christian Studies	9	EGR101 or 301 meet 3 units.

*Course is interdisciplinary

Upper Division Requirements	12	EGR302, 401, and 304, 305, 306 will fulfill 9 units
Multicultural Requirements	9	ENG123 fulfill 3 units
Interdisciplinary Requirements	9	EGR102, EGR121 & EGR122 will fulfill

Total Required GE units: 27Upper Division Required GE Units: 3

Total Major Units: 103Upper Division Major Units: 45-48

Additional Elective Units Needed: 0 Upper Division Elective Units Needed: 0

Contact Information

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About This Pla	in
• This plan is not a contract. Curriculum can be	subject to change.
 Highlighted courses and fields are major speci 	fic.
 Descriptions for all courses can be found in the 	e CBU catalog.
• To graduate, students need 124 total units, 39	of which
must be upper division.	
· Courses numbered in the 300's and 400's are u	pper division.
 GST100, ENG103, and MAT095 count as electronic 	ctive units.

2014-2015

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Computer Science

2014-2015

	Freshman Year			Sophomore Year	
Fall Semester	Spring Semester	Summer Semester	Fall Semester	Spring Semester	Summer Semester
GR101 Engineering from a Christian Jorldview	EGR102 Introduction to 4		EGR221 Data Structures 3	EGR202 Worldview 0	
GR103 Engineering	Engineering Design EGR122 Visualization		EGR222 Software	Reflection I EGR223 Human Computer	
ervice 1	Languages 3		Engineering 4	Interaction 3	
GR121 Introduction to Computer 3	EGR192 Enigineering		EGR225 Discrete Structures 3	EGR226 OS and 3	
CD102 Lie Miller is 6 ECD	Seminar IIMAT245 AnalyticalI		MAT255 Analytical	Networking PHY201 Physics for	
GR182 Intro Mathematics for EGR 4	Geometry & Calculus I		Geometry & Calculus II	Engineers I with Lab	
ST100 FOCUS 1	General Education 3		ENG123 Intermediate 3	Approved Science 4	
Seneral Education 3	General Education 3		Composition	General Education 3	
s s				General Education 5	
NG113 Composition 3		I I			
					6
Total Units: 18	Total Units: 18	Total Units:	Total Units: 17	m. 117	
		TOTAL UTILS.		Total Units: 17	Total Units:
2	Junior Year		Fall Semester	Senior Year	_
Fall Semester SC311 Compiler Design		Summer Semester Cross Cultural	Fall Semester CSC 412 Intelligent Systems 3	Senior Year Spring Semester CSC 411 Social and Professional	_
Fall Semester SC311 Compiler Design nd Languages 3	Junior Year Spring Semester CSC312 Algorithms 3 CSC313 Graphics and 3	Summer Semester	CSC 412 Intelligent Systems 3	Senior Year Spring Semester CSC 411 Social and Professional Issues in Computing 1	_
Fall Semester SC311 Compiler Design ad Languages 3 GR302 Engineering esign and Documentation 3	Junior Year Spring Semester	Summer Semester Cross Cultural		Senior Year Spring Semester CSC 411 Social and Professional Issues in Computing 1 CSC 414 Theory of Computation 3	_
Fall Semester SC311 Compiler Design ad Languages 3 GR302 Engineering esign and Documentation 3 GR305 Engineering 2	Junior Year Spring Semester CSC312 Algorithms 3 CSC313 Graphics and 3	Summer Semester Cross Cultural	CSC 412 Intelligent Systems 3 CSC 413 Information Security and 3	Senior Year Spring Semester CSC 411 Social and Professional Issues in Computing 1 CSC 414 Theory of Computation 3 EGR324 Engineering 3	_
Fall Semester SC311 Compiler Design nd Languages 3 GR302 Engineering esign and Documentation 3 GR305 Engineering tatistics 2	Junior Year Spring Semester CSC312 Algorithms 3 CSC313 Graphics and 3 Visual Computing 3 EGR304 Leadership Cohort 1	Summer Semester Cross Cultural	CSC 412 Intelligent Systems3CSC 413 Information Security and Computer Forensics3EGR401 Capstone Design3EGR405 Internship Report1	Senior Year Spring Semester CSC 411 Social and Professional Issues in Computing 1 CSC 414 Theory of Computation 3 EGR324 Engineering Economics 3 EGR402 Engineering Capstone and EGR402 Engineering Capstone and 3	_
Fall Semester SC311 Compiler Design nd Languages 3 GR302 Engineering besign and Documentation 3 GR305 Engineering tatistics 2 GR306 Internship reparation 1	Junior Year Spring Semester CSC312 Algorithms 3 CSC313 Graphics and 3 Visual Computing 3	Summer Semester Cross Cultural	CSC 412 Intelligent Systems3CSC 413 Information Security and Computer Forensics3EGR401 Capstone Design3EGR405 Internship Report and Presentation1	Senior Year Spring Semester CSC 411 Social and Professional Issues in Computing CSC 414 Theory of Computation EGR324 Engineering Economics EGR402 Engineering Capstone and Presentation	Summer Semester
Fall Semester SC311 Compiler Design and Languages 3 GR302 Engineering besign and Documentation 3 GR305 Engineering tatistics 2 GR306 Internship 2	Junior Year Spring Semester CSC312 Algorithms 3 CSC313 Graphics and 3 Visual Computing 3 EGR304 Leadership Cohort 1	Summer Semester Cross Cultural	CSC 412 Intelligent Systems3CSC 413 Information Security and Computer Forensics3EGR401 Capstone Design3EGR405 Internship Report1	Senior Year Spring Semester CSC 411 Social and Professional Issues in Computing 1 CSC 414 Theory of Computation 3 EGR324 Engineering Economics 3 EGR402 Engineering Capstone and EGR402 Engineering Capstone and EGR402 Engineering Capstone and 3	_
Fall Semester SC311 Compiler Design and Languages 3 GR302 Engineering tesign and Documentation 3 GR305 Engineering tatistics 2 GR306 Internship reparation 1 GR329 Computer rchitecture 3 HY203 Physics for 4	Junior Year Spring SemesterCSC312 Algorithms3CSC313 Graphics and Visual Computing3EGR304 Leadership Cohort1EGR325 Database Systems3EGR390 Internship0EGR404 Worldview0	Summer Semester Cross Cultural	CSC 412 Intelligent Systems3CSC 413 Information Security and Computer Forensics3EGR401 Capstone Design3EGR405 Internship Report and Presentation1Upper Division General Education Course3	Senior Year Spring Semester CSC 411 Social and Professional Issues in Computing 1 CSC 414 Theory of Computation 3 EGR324 Engineering Economics 3 EGR402 Engineering Capstone and Presentation 3 EGR404 Worldview Reflection II 0 EGR 425 Real Time and Embedded 3	_
Fall Semester SC311 Compiler Design ad Languages 3 GR302 Engineering esign and Documentation 3 GR305 Engineering tatistics 2 GR306 Internship reparation 1 GR329 Computer rchitecture 3 HY203 Physics for 4	Junior Year Spring SemesterCSC312 Algorithms3CSC313 Graphics and Visual Computing3EGR304 Leadership Cohort1EGR305 Database Systems3EGR390 Internship0EGR404 Worldview Reflection II0	Summer Semester Cross Cultural	CSC 412 Intelligent Systems3CSC 413 Information Security and Computer Forensics3EGR401 Capstone Design3EGR405 Internship Report and Presentation1Upper Division General Education Course3	Senior Year Spring Semester CSC 411 Social and Professional 1 Issues in Computing 1 CSC 414 Theory of Computation 3 EGR324 Engineering Economics 3 EGR402 Engineering Capstone and Presentation 3 EGR404 Worldview Reflection II 0	_
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Fall Semester SC311 Compiler Design ad Languages GR302 Engineering esign and Documentation GR305 Engineering atistics GR306 Internship reparation GR329 Computer rchitecture HY203 Physics for	Junior Year Spring SemesterCSC312 Algorithms3CSC313 Graphics and Visual Computing3EGR304 Leadership Cohort1EGR305 Database Systems3EGR390 Internship0EGR404 Worldview Reflection II0Computing and Software3	Summer Semester Cross Cultural	CSC 412 Intelligent Systems3CSC 413 Information Security and Computer Forensics3EGR401 Capstone Design3EGR405 Internship Report and Presentation1Upper Division General Education Course3	Senior Year Spring Semester CSC 411 Social and Professional Issues in Computing 1 CSC 414 Theory of Computation 3 EGR324 Engineering Economics 3 EGR402 Engineering Capstone and Presentation 3 EGR402 Engineering Capstone and Presentation 3 EGR404 Worldview Reflection II 0 EGR425 Real Time and Embedded Development 3	_
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