

Grantham University Course Articulation

CIAT Course Code	Title	Semester Hrs	Equivalency	GU Course Code	Title	Semester Hrs
Networking						
101A	Computer Hardware Fund	4		CS106	Intro to Computer Systems	3
101B	Computer Operating Sys	4		CS1**	CS Elective	3
102A	Networking Fund I	4		IS216	Computer Networks	3
102B	Networking Fund II	4		IS2**	IS Elective	3
120	Network Security	4		IS411	Network Security	3
154	Windows Workstation	4		CS340	Operating Systems	3
265	Install & Config Windows	4		CS2**	CS Elective	3
266	Administer Windows	4		CS2**	CS Elective	3
267	Config Adv Windows	4		CS2**	CS Elective	3
246	Monitor & Operating Priv	4		IS2**	IS Elective	3
247	Config & Deploy a Private	4		IS220	Cloud Computing	3
Intermediate and Advanced Network Security						
220	Certified Ethical Hacker	4		IS475	Ethical Hacking	3
221	Adv Network Security	4		IS211	Intro to Information Systems	3
222	Adv Security Practitioner	4		IS355	Risk Management	3
Linux-based Operating System						
230A	Install & Config of Linux I	4		CS2**	CS Elective	3
230B	Install & Config of Linux II	4		CS2**	CS Elective	3
Virtualization						
290	Network Virtualization	4		IS2**	IS Elective	3
CISCO Networking						
270A	Cisco Config ICND1	4		IS316	TCP/IP Networks	3
270B	Cisco Config ICND2	4		IS2**	IS Elective	3
271	Implement Cisco IOS	4		IS2**	IS Elective	3
272	Implement Cisco IP	4		IS2**	IS Elective	3

273	Implement Cisco IP	4		IS2**	IS Elective	3
274	Troubleshoot & Maintain	4		IS2**	IS Elective	3
Software Development						
ASD101	Fund of Software Design	4		CS265 or CS192	Programming in C++ Programming Essentials	4 3
ASD102	Object-Orient Prog with	4		CS285	Advanced Programming in C++	4
ASD103	Rel Database Mgmt Sys &	4		IS320	Database Applications	3
ASD150	Operating Sys Concepts	4		CS340	Operating Systems	3
ASD170	Front-End Dev with HTML,	4		CS197 or IS301	Programming in HTML Web Design I	3 4
ASD190	Internet Arch with HTTP &	4		CS2**	CS Elective	3
ASD210	Python Fund and Best	4		CS2**	CS Elective	3
ASD215	C# Bus Programming	4		CS412	Programming in C# with .Net	4
ASD220	Linux Admin & Shell	4		CS2**	CS Elective	3
ASD225	Windows Dev and Admin	4		CS2**	CS Elective	3
ASD227	iOS Prog with Objective-C	4		CS340	Operating Systems	3
ASD230	Open Source Servers	4		CS2**	CS Elective	3
ASD235	SQL Server and T-SQL	4		CS371	Database Design	4
ASD247	Android App Development	4		CS340	Operating Systems	3
ASD255	Web Development with	4		IS370	Server Side Web Development	4
ASD260	MEAN Stack Development	4		IS2**	IS Elective	3
ASD265	Cloud Computing with	4		IS220	Cloud Computing	3
ASD267	Virtual Reality with Google	4		IS2**	IS Elective	3
ASD277	Embedded Computers and	4		IS2**	IS Elective	3
ASD280	Django Framework	4		CS2**	CS Elective	3
ASD290	Ruby on Rails Framework	4		CS2**	CS Elective	3
ASD295	Augmented Reality with	4		CS2**	CS Elective	3

Office Productivity						
BUS101	Word Processing	3		CS105	Intro to Computer Applications	3
BUS102	Spreadsheets	3		CS155	Computer Applications for	3
BUS103	Presentation Applications	3		CS1**	CS Elective	3
BUS104	Database Management	3		IS1**	IS Elective	3
BUS105	Business and Email	3		IS1**	IS Elective	3
Media Arts - Graphic Design						
GRD101	Introduction to Graphic	3		HU1**	HU Elective	3
GRD102	Image Manipulation	3		IS104	Digital Graphic Fundamentals	3
GRD103	Digital Illusions	3		EL1**	Elective	3
GRD201	Graphic Design for Print	3		EL1**	Elective	3
GRD202	Graphic Design for the	3		EL2**	Elective	3
GRD301	Portfolio Creation	3		IS3**	IS Elective Upper Level	3
Media Arts Web Design						
WEB101	Introduction to Web	3		CS197	Programming in HTML	3
				or IS301	Web Design I	4
WEB102	Responsive Web Design	3		CS197	Programming in HTML	3
				or IS301	Web Design I	4
WEB103	Intermediate Web Design	3		or IS306	Web Design II	4
				or CS208	Programming in Javascript	4
				or CS350	Intro to jQuery	3
WEB201	Programming for the Web	3		IS306	Web Design II	4
				or CS350	Intro to jQuery	3
				or CS208	Programming in Javascript	4
WEB202	User Interface Design &	3		CS430	Mobile App Dev	4
WEB301	Online Porfolio Creation	3		IS3**	IS Elective Upper Level	3
General Education						

ENG100	College Reading and	3		EN100	Fundamentals of Written	3
ENG101	English Composition	3		EN101	English Composition	3
ENG150	Oral Communications Skills	3		CO101	Introduction to Public	3
ENG201	Literature and the Art of	3		EN2**	EN Elective	3
MTH101	Intermediate Algebra	3		MA104	Fundamentals of Algebra	3
MTH105	College Algebra	3		MA105	College Algebra	3
MTH110	Plane Geometry	3		MA1**	MA Elective	3
MTH120	Trigonometry	3		MA111	College Trigonometry	3
MTH140	Statistics	4		MA230	Mathematical Statistics	3
MTH150	Pre-Calculus	4		MA141	Precalculus	3
MTH161	Calculus I	4		MA302	Calculus I	4
MTH162	Calculus II	4		MA2**	MA Elective	3
				or MA302	Calculus I	4
MTH163	Calculus III	4		MA312	Calculus II	4
SCI110	Physics	3		PH1**	PH Elective (Natural Science)	3
SCI120	General Biology	3		GS102	Introduction to Life Science	3
SCI130	Principles of Chemistry	3		CH205	General Chemistry (Lab	4
SBS110	Introduction to Psychology	3		PS101	Fundamentals of Psychology	3
SBS120	Sociology	3		SO101	Introduction to Sociology I	3
SBS130	History	3		HS202	U.S. History: Post Civil War to	3
SBS140	Geography	3		SS106	Geography	3
SBS150	Economics	3		ECN1**	ECN Elective	3
SBS160	Philosophy	3		PL201	Introduction to Philosophy	3
SBS170	Political Science	3		GP210	American Government I	3