

BACHELOR OF SCIENCE IN ARTIFICIAL INTELLIGENCE

FRESHMAN YEAR											
FIRST SEMESTER						SECOND SEMESTER					
Course Number	Course Title	Credit Hours	Contact Hours		Pre-requisite	Course Number	Course Title	Credit Hours	Contact Hours		Pre-requisite
			Lec	Lab					Lec	Lab	
ALIS 1211	Introduction to Islamic Culture	2	2	0		ALIS 1212	The Social System in Islam	2	2	0	<i>ALIS 1211</i>
COMM 1311	Written Communication	3	3	0		COMM 1312	Writing and Research	3	3	0	<i>COMM 1311</i>
UNIV 1211	Prof. Development and Competencies	2	2	0		UNIV 1212	Critical Thinking and Problem Solving	2	2	0	<i>UNIV 1211</i>
MATH 1422	Calculus I	4	4	1	<i>PRPM 0022</i>	PHYS 1421	Physics for Engineers I	4	3	3	<i>PRPM 0022</i>
GET 1411	Computer Science I	4	3	2		GET 1412	Computer Science II	4	3	2	<i>GET 1411</i>
PHED 1111	Active Living Lifestyle	1	1	0		MATH 1423	Calculus II	4	4	1	<i>MATH 1422</i>
Total Credit Hours		16				Total Credit Hours		19			

SOPHOMORE YEAR											
FIRST SEMESTER						SECOND SEMESTER					
Course Number	Course Title	Credit Hours	Contact Hours		Pre-requisite	Course Number	Course Title	Credit Hours	Contact Hours		Pre-requisite
			Lec	Lab					Lec	Lab	
ALIS 2211	Linguistic Communication Skills	2	2	0	<i>ALIS 1212</i>	ALIS 2212	The Biography of Prophet Mohammad	2	2	0	<i>ALIS 2211</i>
UNIV 1213	Leadership and Teamwork	2	2	0	<i>UNIV 1212</i>	COMM 2312	Technical and Professional Communications	3	3	0	<i>COMM 2311</i>
PHYS 1422	Physics for Engineers II	4	3	3	<i>PHYS1421</i> <i>MATH 1422</i>	ASSE 2111	Learning Outcome Assessment I	1	1	1	<i>Sophomore Standing</i>
GET 2291	Professional Ethics	2	2	0		GET 2331	Mathematical Reasoning and Algorithmic Thinking	3	3	0	<i>GET 1412</i>
GET 2421	Data Structures	4	3	2	<i>GET 1412</i>	AINT 2412	Scripting Languages for AI	4	3	2	<i>GET 1412</i>
COMM 2311	Oral Communication	3	3	0	<i>COMM 1312</i>	AINT 2311	Introduction to AI	3	3	0	<i>GET 2421</i>
PHED 1112	Healthy Behaviors and Management	1	1	0	<i>PHED 1111</i>	MATH 2313	Probability and Statistics	3	3	1	<i>MATH 1423</i>
Total Credit Hours		18				Total Credit Hours		19			

JUNIOR YEAR

JUNIOR YEAR											
FIRST SEMESTER						SECOND SEMESTER					
Course Number	Course Title	Credit Hours	Contact Hours		Pre-requisite	Course Number	Course Title	Credit Hours	Contact Hours		Pre-requisite
			Lec	Lab					Lec	Lab	
AINT 3332	Discrete Structures and Combinatorial Analysis	3	3	0	<i>GEIT 2331</i>	GEIT 3351	Principles of Software Engineering	3	3	0	<i>GEIT 1412</i>
GEIT 3341	Database I	3	2	2	<i>GEIT 1412</i>	AINT 3421	Deep Learning	4	3	2	<i>AINT 3411</i>
AINT 3411	Introduction to Machine Learning	4	3	2	<i>AINT 2412 MATH 2313</i>	AINT 3351	Algorithms	3	3	0	<i>GEIT 2421</i>
MATH 3433	Linear Algebra and Differential Equation	4	4	1	<i>MATH 1423</i>		AI Elective I***	3			<i>See from the list</i>
ASSE 3211	Learning Outcome Assessment II	2	2	1	<i>ASSE 2111 & Junior Standing</i>		Natural Science Elective**	4			<i>See from the list</i>
GEIT 3331	Computer Organization	3	3	0	<i>GEIT 1412</i>						
Total Credit Hours		19				Total Credit Hours		17			

SUMMER OF JUNIOR YEAR

Course Number	Course Title	Credit Hours	Pre-requisite
GEIT 4361	Internship	3	8 weeks (320 hours) full time End of Junior Year (summer before graduation) and department approval

SENIOR YEAR

SENIOR YEAR											
FIRST SEMESTER						SECOND SEMESTER					
Course Number	Course Title	Credit Hours	Contact Hours		Pre-requisite	Course Number	Course Title	Credit Hours	Contact Hours		Pre-requisite
			Lec	Lab					Lec	Lab	
AINT 4373	Computer Vision	3	3	0	<i>MATH 3433</i>		AI Elective III***	3			<i>See from the list</i>
ASSE 4311	Learning Outcome Assessment III - AI	3	3	0	<i>ASSE 3211 & Senior Standing</i>		Social Science Elective II*	3			<i>See from the list</i>
	Social Science Elective I*	3			<i>See from the list</i>		AI Elective IV***	3			<i>See from the list</i>
	AI Elective II***	3			<i>See from the list</i>						
Total Credit Hours		12				Total Credit Hours		9			

TOTAL DEGREE CREDIT HOURS = 132

*** Social Science Electives: 2 Courses = 6 Credit Hours**

Course Number	Course Title	Credit Hours	Pre-Requisites
FREN 1311	Introduction to French Language	3	
FURS 1311	Introduction to Futures Skills	3	
FUTR 1311	Introduction to Futures Studies	3	
GEGR 1311	World Regional Geography	3	
HIST 1311	World Civilizations	3	
PSYC 1311	Introduction to Psychology	3	
SERV 1311	Introduction to Service Learning and Volunteering	3	
SPAN 1311	Introduction to Spanish Language	3	
SUST 1311	Introduction to Sustainability	3	
SYST 1311	Introduction to Systems Thinking	3	
BSTW 1311	Behavioral Sciences in 3D World	3	
DANT 1311	Digital Anthropology	3	
ECON 1311	Introduction to Macroeconomics	3	
ECON 1312	Introduction to Microeconomics	3	

**** Natural Science Electives: 1 Course = 4 Credit Hours**

Course Number	Course Title	Credit Hours	Contact Hours		Pre-requisite
			LEC	LAB	
BIOL 1411	Introductory Biology	4	3	3	PRPM 0011
CHEM 1411	Introductory Chemistry	4	3	3	PRPM 0011
CHEM 1421	Chemistry for Engineers I	4	3	3	PRPM 0022
CHEM 1422	Chemistry for Engineers II	4	3	3	PRPM 0022
GEOL 1411	Introductory Geology	4	3	3	PRPM 0011

***** AINT Electives: 4 Courses = 12 Credit Hours**

Course Number	Course Title	Credit Hours	Contact Hours		Pre-requisite
			LEC	LAB	
AINT 3354	Introduction to Cryptography	3	3	0	GEIT 2421
AINT 4371	Computer Graphics	3	3	0	GEIT 2421
AINT 3357	Logic and Formal Verification	3	3	0	GEIT 2331
AINT 4372	Distributed Systems and Algorithms	3	3	0	AINT 3351
AINT 4362	Multi Agent Systems	3	3	0	AINT 3411
AINT 3381	Big Data Analytics	3	3	0	AINT 3411
AINT 4374	Text Mining	3	3	0	AINT 3411
AINT 4381	Intelligent Robotics	3	3	0	AINT 3411
AINT 4376	Bioinformatics	3	3	0	AINT 3351
AINT 4380	Quantum Information and Computation	3	3	0	AINT 3351
AINT 3361	Computer Networks	3	3	0	MATH 2313 GEIT 2421
AINT 4311	Parallel Computing	3	3	0	AINT 3351
AINT 4361	Operating Systems	3	3	0	GEIT 3331
AINT 3371	Database II	3	2	2	GEIT 3341
AINT 4393	Special Topics – I	3	3	0	Senior Standing & Department Approval
AINT 4398	Special Topics – II	3	3	0	Senior Standing & Department Approval
AINT 4399	Special Topics – III	3	3	0	Senior Standing & Department Approval