

Associate of Science in Software Development

Course Name	Upon completion of this program, the student will be able to:	PLO1 -Describe the concept of Software Development, its basic principles, and rules.	PLO2 - Describe some of the most used digital languages in industry, their strengths, and applications.	PLO3 - Explain data structure and system design techniques for solving problems in different environments and contexts.	PLO4 - Apply project management methodologies and skills of web development projects in a variety of organizational environments.	PLOS - Utilize foundational general education knowledge and skills, including those involved in mathematics, humanities, natural sciences, and communication, in software development and design projects.
FSDI 101: Introductory HTML & CSS						<u> </u>
Define the basic HTML components such as Structure, Text, Lists, and Links.	X = See key below	WE, RQ and FE				
Define the basic first components such as Structure, Text, Lists, and Links.	IRM	1				
Explain CSS aspects such as Color, Text, Boxes, as well as HTML5 layout and	X = See key below	P, WE and FE				
practical information.	IRM	I I				
FSDI 102: Intermediate HTML & CSS				1		
Demonstrate skill proficiency in aspects of HTML such as Loops, Images, Tables, Forms, Markup, Video, and Audio	X = See key below	WE, RQ and FE				
·	IRM X = See key below	R Pand FE				
Describe CSS aspects such as List, Tables, Forms, Images, and HTML 5 Layout.	IRM	R				
FSDI 103: Programming Fundamentals	INM	N.				
	X = See key below	P and FE				
Explain the concept of variables.	IRM	1				
	X = See key below	Pand FE				
Apply conditional statements and loops.	IRM	1				
Develop programming functions that meet defined specifications	X = See key below	P, QR and FE				
Develop programming functions that meet defined specifications	IRM	I				
FSDI 104: JavaScript Fundamentals						
Apply the Document Object Model.	X = See key below	P, WE and FE				
	IRM	1				
Describe JavaScript functions, as well as Object Literal and Constructor.	X = See key below	P, RQ and FE				
FSDI 105: jQuery Fundamentals	IRM	I				
	X = See key below	P, RQ and FE	P, RQ and FE		T T T T T T T T T T T T T T T T T T T	
Explain the basic aspects of JavaScript such as Advanced JavaScript Objects, Document Object Model, and Events.	IRM	1,nquiure	I I			
	X = See key below	P, RQ and FE	P, RQ and FE			
Apply fundamental aspects of jQuery such as Query Selector and Functions.	IRM	1	1			
FSDI 106: JavaScript and jQuery Solutions						
	X = See key below	P, RQ and FE	P, RQ and FE			
Describe JavaScript Events and Functions.	IRM	R	1			
Demonstrate proficiency in aspects of jQuery and Ajax, such as Server	X = See key below	P, RQ and FE	P, RQ and FE			
connection (GET, POST) and JSON.	IRM	R	I			
FSDI 107: Introductory React						
Produce a single page application using React.	X = See key below	FE and P	FE and P			
	IRM	R	I			
Modify components using React.	X = See key below	P, RQ and FE	P, RQ and FE			
	IRM	R R RO and FF	D. DO and EE			
Illustrate communication between React components.	X = See key below IRM	P, RQ and FE R	P, RQ and FE			
FSDI 108: Introductory Python	ii ii ii	^	'			
Demonstrate skill proficiency in Python variables, loops, lists, Exception	X = See key below	FE, RQ, and P	FE, RQ, and P			
handling, as well as if, for, and functions.	IRM	R	l I			
5 1 2 5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	X = See key below	FE, RQ, and P	FE, RQ, and P			
Explain file management functions such as read, write, and delete.	IRM	R	I			

Procedure of the Common Annual Common Andual Common Andu	FSDI 109: Intermediate React						
Part		X = See key below	FE, RQ, and P	FE, RQ, and P			
Process Proc		· ·					
PROJECT Proceedings Process		X = See key below	FE, RQ, and P	FE, RQ, and P			
	Describe API endpoint communication with React.						
Tempor Reviews and Disclosure Science 1	FSDI 110: Introductory Web API with ASP.net/Flask						
Received the Reference of the Production of the Control of the C	Demonstrate skill proficiency in basic aspects of Flask such as RESTful API,	X = See key below	FE, RQ, and P	FE, RQ, and P			
Part	Template Rendering, and Database Storage.	IRM	R	1			
Processing SERTINUMP. Bit	Illiustrate how to serve a React project from a Flask server and connect	X = See key below	FE, RQ, and P	FE, RQ, and P			
See See Processor Comment of the Emphasis for graphical for interests in wood professional confession of the Comment of See See See See See See See See See Se	React with a RESTful API.	IRM	R	1			
### R R R R R R R R R R R R R R R R R R	FSDI 111: Intermediate Python and Flask						
Figure that no contend applications to distributes to contend. Figure in the notice and addition persistent records. Figure in the notice and addition persistent records and records. Figure in the notice and addition persistent records and additional persistent records		X = See key below	FE, RQ, and P	FE, RQ, and P			
Regard how to some of applications to definitions for all controls of controls and	applications.	IRM	R	R			
The control and delete persistent records. Security Proceed Process	Explain how to connect applications to databases to allow users to create.	X = See key below	FE, RQ, and P	FE, RQ, and P			
# Secretary of the Contract and Configuration in Dipage. # Secretary of the Contract and Configuration with Dipage, including templates and visible in Contract and Configuration with Dipage, including templates and visible in Contract and		IRM	R	R			
# Secretary of the Contract and Configuration in Dipage. # Secretary of the Contract and Configuration with Dipage, including templates and visible in Contract and Configuration with Dipage, including templates and visible in Contract and	FSDI 112: Introductory Django						
Security		X = See key below	WE, RQ and FE	WE, RQ and FE			
Execute a MVC web application with Digrings, including templates and views (2011) in the immediate of Digring or est framework. Fig. 1112 bit intermediate of Digring or est framework.	Explain motalitation and configuration in Django.	IRM	R	i			
Fight 13 intermediate Opango Fight 13 intermediate Opango Fight 13 intermediate Opango Fight 13 intermediate Opango Fight 14 intermediate Opango Fight 14 intermediate Opango Figh	Execute a MVC web application with Django, including templates and views.			WE, RQ, P and FE			
Internent class based views in Django rest framework. Produce a detabase connection and authentication via Django rest to immercial. Produce a detabase connection and authentication via Django rest to immercial. Produce a detabase connection and authentication via Django rest to immercial. Produce a detabase connection and authentication via Django rest to immercial. Produce a detabase connection and authentication via Django rest to immercial. Produce a detabase connection and authentication via Django rest to immercial. Produce a detabase connection and authentication via Django rest to immercial. Produce a detabase connection and authentication via Django rest to immercial. Produce a detabase connection and authentication via Django rest to immercial via detabase connection and authentication via Django rest to immercial. Produce a detabase connection and authentication via Django rest to immercial. Produce a detabase connection and authentication via Django rest to immercial. Produce a detabase connection and authentication via Django rest to immercial. Produce a detabase connection and authentication via Django rest to immercial. Produce a detabase connection and authentication via Django rest to immercial. Produce a detabase connection and authentication via Django rest to immercial. Produce a detabase connection and responsive Design in the Connection of the Connection via Django rest to immercial. Produce a detabase connection and detabase and modification. Produce a detabase connection and detabase and modification. Produce a detabase connection and detabase and modification. Produce a detabase connection and detabase connection and detabase and produce in the Connection via Django rest to immercial via Django rest to immercia		IRM	R	I			
Inference to Case Stand views in Digragor est framework. IRM R R R R R R R R R R R R R R R R R R	FSDI 113: Intermediate Django					T	
Produce a database connection and authentication via Django rest transvork. No.	Imlement class based views in Django rest framework.						
Famework. INFO							
Demonstrate skill proficiency in data or ginization, management, and storage formats that enable efficient scease and modification. Apply algorithms to solve problems. Apply algorithms to solve			•	•			
Demonstrate skill proficiency in data organization, management, and storage formats that enable efficient access and modification. Apply algorithms to solve problems. Apply algorithms to solve problems. IRM R R R R R R R R R R R R		INP	n	n			
Apply algorithms to solve problems. X		Y = See key helow		WE BO and FE	WE BO and EE		
Apply algorithms to solve problems. X - See key below RQ, Pand FE				· •			
Apply algorithms to solve problems. RM			RO, P and FF		RO. Pand FF		
Implement IX Design Fundamentals, Principles, Techniques, and Usability Testing Testin	Apply algorithms to solve problems.						
Testing IRM R I ROLL RESPONSIVE Design functions such as Flexbox basics and media query basics. Execute Responsive Design functions such as Flexbox basics and media query basics. EX See key below RQ, Pand FE	FSDI 115: User Experience and Responsive Design						
Testing IRM RQ, Pand FE RQ, Pa	Implement UX Design Fundamentals, Principles, Techniques, and Usability	X = See key below		WE, RQ and FE	WE, RQ and FE		
Expetite Responsive Design functions such as Flexbox basics and media query basics. RM		IRM		R	I		
query basics. IRM R R I I I I I I I I I I I I I I I		X = See key below	RQ, P and FE		RQ, P and FE	RQ, P and FE	
Explain Scrum in Agile Methodologies. X = See key below WE, RQ and FE IRM R R R I I RO, Pand FE RO,		IRM	R		ı	ı	
Explain Scrum in Agile Methodologies. X = See key below WE, RQ and FE IRM R R R I I RO, Pand FE RO,	FORMACO C. C. B. L. M. W. L. L. F. L. M. L.						
IRM R R R I I Perfrom Test-Driven Methodology including Unit and Acceptance Testing, as well as Refactoring. RQ, Pand FE RQ,		V = Coo how bolow	WE DO and SE	WE DO and FE	WE DO and FE	 	
Perfrom Test-Driven Methodology including Unit and Acceptance Testing, as well as Refactoring. RQ, Pand FE	Explain Scrum in Agile Methodologies.				we, kQ and FE		
well as Refactoring. IRM	Perfrom Text Driven Methodology including Unit and Assessment Textiles		I)		RO Pand FF	RO Pand FF	
Apply various aspects of Agile Architecture such as Architectural Styles, Architectural Styles, Architectural Techniques, SOLID Principles, and Design Patterns. Implement Software Project Management effort and cost estimations. Implement Software Project Management effort and Software Project Managem	0, 0						
Apply various aspects of Agile Architectural Styles, Architectural Styles, Architectural Techniques, SOLID Principles, and Design Patterns. Implement Software Project Management effort and cost estimations. I				11		<u>'</u>	
Architectural Techniques, SOLID Principles, and Design Patterns. IRM R R R R Implement Software Project Management effort and cost estimations. X = See key below WE, RQ and FE WE, RQ and FE WE, RQ and FE R IRM R R R FSDI118: Capstone I: User Experience Froduce a final capstone project proposal inlocluding Responsive Design and Grid Basics. X = See key below RQ, P and FE RQ IRM R R R R RQ, P and FE		X = See key below	RQ, P and FE		RQ, P and FE	RQ, P and FE	
Implement Software Project Management effort and cost estimations. X = See key below R R R FSDI 118: Capstone I: User Experience Produce a final capstone project proposal inlocluding Responsive Design and Grid Basics. X = See key below R R R R R R R R R R R R R			•			•	
IRM R R R FSDI 118: Capstone I: User Experience Produce a final capstone project proposal inloluding Responsive Design and Grid Basics. X = See key below RQ, P and FE RQ, P and FE RQ, P and FE RQ RAME RM R R R R R R R	Implement Software Project Management effort and cost estimations.			WE, RQ and FE			
Produce a final capstone project proposal inlocluding Responsive Design and Grid Basics. X = See key below RQ, P and FE RQ, P and FE RQ, P and FE RQ P and FE RM R R R		· ·					
Produce a final capstone project proposal inicluding Responsive Design and Grid Basics. IRM R R Apply the basic aspects of UX Design such as Design Principles and	FSDI 118: Capstone I: User Experience						
Produce a final capstone project proposal inIcluding Responsive Design and Grid Basics. IRM R R Apply the basic aspects of UX Design such as Design Principles and		X = See key below	RQ, P and FE		RQ, Pand FE	RQ, P and FE	
lechniques, Usability lesting, User lesting Surveys and interviews, Information Architecture, Cognitive Walthrough, System Usability Scale	Techniques, Usability Testing, User Testing Surveys and Interviews,	X = See key below	RQ, P and FE	RQ, P and FE	RQ, P and FE	RQ, P and FE	

(SUS), and Usability Testing planning.	IRM	R	R	R	R	
	INM	n	n	n	n.	
FSDI 119: Capstone II: Agile Methodology and Architecture Imperment a final capstone project with Agile Architecture and defined						
Styles and Techniques.	X = See key below	RQ, P and FE				
Prepare software architecture in a final capstone project.	IRM	R	R	R	R	
riepare sortware architecture in a imat capstone project.	X = See key below	RQ, P and FE				
	IRM	R	R	R	R	
FSDI 120: Capstone III: Project Management implement Software Project Management tecniques for Effort Estimation,		20.0				
Cost Estimation, and Risk Management.	X = See key below	RQ, P and FE				
Apply the basic aspects of Test Driven Development in final capstone	IRM	М	M	M	M	
project.	X = See key below	RQ, P and FE				
MATH 201: Algebra 1	IRM	М	М	М	М	
MATH 201: Algebra 1	X = See key below					RA
Analyze the real number system.						
	IRM X = See key below					I RA and RQ
2. Solve linear equations and linear inequalities.	IRM					RA and RQ
	X = See key below					RA
3. Analyze the concept of functions and their graphs.	IRM					I RA
4. Solve linear equations.	X = See key below IRM					RA and CS
	X = See key below					RQ and FE
5. Demonstrate proficiency in exponents and polynomials.	X = See key below					KQ and FE
						RA
Demonstrate how to factor polynomials.	X = See key below IRM					
	X = See key below					I RA and RQ
7. Demonstrate skill proficiency in rational expressions and equations.	X = See key below					RA and RQ
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	IRM					1
MATH 202: Algebra 2						
	X = See key below					RA and RQ
MATH 202: Algebra 2 1. Analyze how to analyze, graph and evaluate linear functions as applied to ousiness scenarios.	X = See key below IRM					RA and RQ
MATH 202: Algebra 2 1. Analyze how to analyze, graph and evaluate linear functions as applied to	X = See key below IRM X = See key below					RA and RQ R RQ
MATH 202: Algebra 2 1. Analyze how to analyze, graph and evaluate linear functions as applied to business scenarios. 2. Demonstrate skill proficiency in performing algebraic operations on functions and determine inverses.	X = See key below IRM X = See key below IRM					RA and RQ R RQ R
MATH 202: Algebra 2 1. Analyze how to analyze, graph and evaluate linear functions as applied to business scenarios. 2. Demonstrate skill proficiency in performing algebraic operations on	X = See key below IRM X = See key below IRM X = See key below					RA and RQ R R RQ R
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MATH 202: Algebra 2 1. Analyze how to analyze, graph and evaluate linear functions as applied to ousiness scenarios. 2. Demonstrate skill proficiency in performing algebraic operations on functions and determine inverses. 3. Interpret the relationship between the properties and graphs of polynomial functions 4. Solve equations involving logarithmic and exponential functions, including	X = See key below IRM					RA and RQ R RQ R RQ R RQ R RQ R
MATH 202: Algebra 2 1. Analyze how to analyze, graph and evaluate linear functions as applied to ousiness scenarios. 2. Demonstrate skill proficiency in performing algebraic operations on functions and determine inverses. 3. Interpret the relationship between the properties and graphs of polynomial functions 4. Solve equations involving logarithmic and exponential functions, including	X = See key below IRM X = See key below					RA and RQ R RQ R RQ R RQ R RQ R RQ R RQ RRQ RO
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MATH 202: Algebra 2 1. Analyze how to analyze, graph and evaluate linear functions as applied to ousiness scenarios. 2. Demonstrate skill proficiency in performing algebraic operations on functions and determine inverses. 3. Interpret the relationship between the properties and graphs of colynomial functions 4. Solve equations involving logarithmic and exponential functions, including application problems. 5. Demonstrate how to work with matrices using a graphing calculator. 6. Construct systems of equations from application problems and solve them using various techniques. 7. Demonstrate skill proficiency in polynomial, rational and radical relationships. 8. Examine conic sections and translations. MATH 203: Quantitative Research Methods 1. Analyze the concept and method of research planning. 2. Demonstrate skill proficiency in experimental design, instrument	X = See key below IRM X = See key below IRM					RA and RQ R RQ R RQ R RQ and FE R RQ R RA and RQ R RA and RQ R R RQ R RQ R RQ R RQ R RQ R RQ R R
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5. Contrast quantitaive and qualitative research methods.	X = See key below					RA and FE
ADTO code luture des alem de Ant	IRM					R
RTS 201: Introduction to Art Demonstrate art history knowledge through a slide identification exam X = See key below RQ						
Demonstrate art history knowledge through a slide identification exam and an image analysis essay.	IRM					RQ I
2. Interpret the quality and conceptual success of a work of art in both	X = See key below					RA
Eastern and Western traditions.	IRM					
	X = See key below					RQ
3. Interpret various works in the arts and humanities.	IRM					ı
	X = See key below					RQ and FE
4. Analyze the creative process and interpretive performance.	IRM					I
5. Demonstrate how to anticpate artistic trends.	X = See key below					RQ
5. Demonstrate now to anticpate artistic trends.	IRM					I
PHIL 201: Introduction to Philosophy and Ethics						
Evaluate the importance of personal and organizational ethics and values	X = See key below					RQ
	IRM					1
Identify personal ethical perspectives and styles that form a basis for athiral decision making.	X = See key below					RQ
ethical decision-making.	IRM					<u> </u>
3. Contrast business ethics to social responsibility.	X = See key below					RQ .
	IRM					l no
4. Identify business ethics principles that are accepted worldwide.	X = See key below IRM					RQ
						RQ
Examine basic ethical principles in the context of philosophy and a global environment.	IRM					l l
HIST 201: World History						<u> </u>
1. Analyze the political, social, economic and cultural history of the world's	X = See key below					RA
major civilizations from the period covering human origins to the emergence of modernity at the beginning of the sixteenth century.	IRM					ı
Evaluate the important influence of diverse societies on shaping our	X = See key below					RA and RQ
current cultural experiences and worldviews.	IRM					I
3. Categorize the major human civilizations and their influence on modern	X = See key below					RQ
society.						
••••	IRM					I .
<u> </u>	IRM X = See key below					I RQ and FE
4. Interpret the major characteristics of western civilization.						
<u> </u>	X = See key below					
4. Interpret the major characteristics of western civilization. POLI 201: Political Science 1. Example the major political philosophers, ideologies, and significant	X = See key below IRM X = See key below					
4. Interpret the major characteristics of western civilization. POLI 201: Political Science	X = See key below IRM X = See key below IRM					RQ and FE I RA I
4. Interpret the major characteristics of western civilization. POLI 201: Political Science 1. Example the major political philosophers, ideologies, and significant events of Western civilization. 2. Evaluate how the major political philosophers made an impact on	X = See key below IRM X = See key below IRM X = See key below					RQ and FE I RA
4. Interpret the major characteristics of western civilization. POLI 201: Political Science 1. Example the major political philosophers, ideologies, and significant events of Western civilization.	X = See key below IRM X = See key below IRM X = See key below IRM					RQ and FE I RA I RQ I
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4. Apply the community contrib approach to passio heatth.	IRM		1	I
5. Interpret the imporatance of health and effective communication in the	X = See key below			RQ and FE
 Interpret the imporatance of health and effective communication in the context of global environmental systems. 	IRM			I I
ESCI 201: Environmental Systems	HAT-1			<u>'</u>
Analyze the increasing impact of human population growth on all natural	X = See key below			RA
systems.	IRM			1
Examine how natural systems work, including both biological and physica	X = See key below			RA and RQ
systems supporting life on planet earth.	IRM			1
3. Differentiate the issues surrounding the use and management of natural	X = See key below			RA
resources by society.	IRM			1
4. Distinguish the principles of pollution control, toxicology, and risk dealing	X = See key below			RQ
with environmental degradation.	IRM			l l
5. Intepret the economic, social, historical, and legal aspects of	X = See key below			RQ and FE
environmental issues.	IRM			I
ENGL 201: English I: Introduction to Composition			1	
Utilize the research process to find timely, reputable, and properly attributed sources.	X = See key below			RA and FE
attributed soulices.	IRM			I
Apply appropriate use of standard English grammar and punctuation.	X = See key below			RQ and FE
	IRM			1
3. Demonstrate an ability to persuade, inform, and entertain in writing.	X = See key below IRM			RQ and FE
	X = See key below			RA and FE
Construct a research-based essay with convincing arguments and appealing information.	IRM			KAANG FE.
3	X = See key below			RQ and FE
5. Demonstrate constructive criticism in writing.	IRM			I I
SPCH 201: Speech: Oral Communication				
Differentiate the communication process and characteristics of this	X = See key below			RA and RQ
competence.	IRM			1
2. Examine effective listening skills by evaluating the role of perception and	X = See key below			RQ
listening habits in communication.	IRM			I
Apply nonverbal messages with accuracy and effectiveness	X = See key below			RA and RQ
or ppy noncollections and one of the original of the original of the original origin	IRM			1
Analyze the role of communication in interpersonal relationships	X = See key below			RA and RQ
	IRM			1
5. Demonstrate own conflict style & demonstrate effective conflict	X = See key below			FE and RQ
management	IRM			l l
6. Practice effective group problem solving and practice role flexibility	X = See key below			
				RA and RQ
	IRM			1
7. Utilize effective delivery style in informal or formal public speaking situations	IRM X = See key below			
Utilize effective delivery style in informal or formal public speaking situations	IRM X = See key below IRM			I RQ I
	IRM X = See key below IRM X = See key below			1
situations 8. Analyze the need to self-monitor personal communication competence	IRM X = See key below IRM X = See key below IRM			I RQ I RAand RQ
situations	IRM X = See key below IRM X = See key below			I RQ I
situations 8. Analyze the need to self-monitor personal communication competence 9. Use a variety of communication strategies and responses based on situational context, goals, and human needs.	IRM X = See key below IRM X = See key below IRM X = See key below			I RQ I RA and RQ I RA and RQ
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situations 8. Analyze the need to self-monitor personal communication competence 9. Use a variety of communication strategies and responses based on situational context, goals, and human needs. 10. Demonstrate knowledge of social media options for interpersonal communication. ENGL 202: English II: Reading and Writing Analytically 1. Analyze the structure of information within the field of English Studies.	IRM X = See key below IRM			I RQ I RAAnd RQ I RAAnd RQ I RAAnd RQ I RA and RQ I FE and RQ I RQ and RA

o. Appty oncourse sourch strategies to access retevant information.	IRM			R
Demonstrate critical thinking while evaluating information.	X = See key below			RA
4. Demonstrate critical trinking write evaluating information.	IRM			R
Constrast expository, analytical, and argumentative essays.	X = See key below			RQ and RA
3. Constrast expository, analytical, and argumentative essays.	IRM			R

X = The assessment which measures the stated program objective/outcome.

KEY	
Projects	Р
Researched and Critiqued Articles	RA
Review / Discussion Question Responses	RQ
Case Studies	CS
Web Exercises	WE
Final Exam with Essay Questions	FE
Introduced, Reinforced, Mastered	IRM