



Cloud Computing/Cloud Application Development

Student Learning Outcomes

- 1 Communication- The student will demonstrate the ability to communicate effectively using written and/or oral communication.
- 2 Information Literacy- The student will recognize when information is needed and have the ability to locate, evaluate, and use effectively the needed information.
- 3 Problem Solving- The student will demonstrate the ability to analyze information and solve problems.
- 4 Workplace Skills - Demonstrates a mastery of workplace skills/soft skills, exhibits initiative, adapts to varied situations

Program Outcomes

- 1 Demonstrate a proficiency in the fundamental concepts of computer programming.
- 2 Demonstrate an understanding of the Software Development Life Cycle (SDLC).
- 3 Exhibit an ability to develop a web application.
- 4 Display an ability to design and develop cloud applications

Fall

Course #	Course Title	Credits	Function
CLD 113	Introduction to Python	3	Technical Studies
CLD 118	Cloud Fundamentals	3	Technical Studies
CLD 138	Object-Oriented Programming (Python)	3	Technical Studies
CLD 168	AWS Cloud Practitioner	3	Technical Studies
MTH	Math Elective*	3	General Studies

Spring

Course #	Course Title	Credits	Function
CLD 121	Object-Oriented Programming (JavaScript)	3	Technical Studies
CLD 126	Test Driven Development (JavaScript)	3	Technical Studies
CLD 137	C# Programming Language	3	Technical Studies
CLD 141	Test Driven Development (Python)	3	Technical Studies
ENG 101	Composition I*	3	General Studies

Summer

Course #	Course Title	Credits	Function
CLD 122	Introduction to Web Development	3	Technical Studies
CLD or INF	Cloud Computing Elective**	3	Elective
	Communication Elective*	3	General Studies

Fall

Course #	Course Title	Credits	Function
CLD 143	Web Application Development I (HTML/CSS)	3	Technical Studies
CLD 152	Web Application Development II (REACT)	3	Technical Studies
CLD 166	Cloud Application Development I (REACT on AWS)	3	Technical Studies
CLD 170	Cloud Application Development II (Serverless REACT on AWS)	3	Technical Studies

Spring

Course #	Course Title	Credits	Function
CLD	Experiential Learning***	3	Elective
CLD or INF	Cloud Computing Elective**	3	Elective
	Social Science Elective*	3	General Studies

	Humanities Elective*	3	General Studies
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****Cloud Computing Electives**

Course #	Course Title	Credits	Function
CLD 129	Programming Foundations (Swift iOS)		Elective
CLD 137	C# Programming Language		Elective
CLD 141	Test Driven Development (Python)		Elective
CLD 147	Website Production & Management (Word Press)		Elective
CLD 158	Multi-Cloud Development Services		Elective
CLD 169	Machine Learning and AI Foundations with Predictive Analytics		Elective
INF 105	CompTIA A+ Core 1		Elective
INF 112	Network Essentials		Elective

*****Experiential Learning**

Course #	Course Title	Credits	Function
CLD 175	Information Technology Internship		Elective
CLD 174	Capstone		Elective

* **Kansas Systemwide General Education**

Technical Certificate, Cloud Computing/Cloud
Application Development - Cert C

Total Credits 48

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CLD or INF	Cloud Computing Elective**	3	Elective

Fall

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CLD 152	Web Application Development II (REACT)	3	Technical Studies
CLD 166	Cloud Application Development I (REACT on AWS)	3	Technical Studies
CLD 170	Cloud Application Development II (Serverless REACT on AWS)	3	Technical Studies

Spring

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CLD or INF	Cloud Computing Elective**	3	Elective

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***Experiential Learning

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Application Development – Cert A

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