

ASSOCIATE OF APPLIED SCIENCE DEGREE (AAS)

This degree prepares students for employment in fields related primarily to computer software. Core courses cover the fundamental knowledge areas and the CIT Concentrations cover specific software skill sets. The department will award a Certificate of Completion for each CIT Concentration successfully completed by the student.

STUDENT LEARNING OUTCOMES - Graduates of this program will have the opportunity to:

- Integrate computer systems into existing network technologies.
- Prescribe computer security procedures.
- Prepare project management strategies.
- Investigate various systems analysis and design techniques.
- Computer applications concentration students: Integrate computer applications to generate solutions to problems.

GENERAL EDUCATION REQUIREMENTS (23 Credits):

	CR	SEMESTER
COMMUNICATIONS: COM 101, 102, 115	3	_____
ENGLISH: ENG 100, 101, 107, 113	3-5	_____
HUMAN RELATIONS: ALS 101, ANTH 101, 112, 201, 205, HIST 105, 106, 107, 150, 151, 210, 247, 260, HMS 130, 135B, 265B, MGT 100B, 283, PHIL 135, PSC 201, PSY 101, 102, 207, 208, 261, SOC	3	_____
MATHEMATICS: MATH 120 or above (except MATH 122, 123)	3	_____
SCIENCE: EGG 131	4	_____
FINE ARTS/HUMANITIES/ SOCIAL SCIENCES: AM, ANTH, ART, COM, ECON, ENG 223 or above, GEOG 106 or above, HIST, International Languages, Music, PHIL, PSC, PSY, SOC, THTR, WMST 113	3	_____
U.S. AND NEVADA CONSTITUTIONS: PSC 101 or HIST 101 and HIST 102 or HIST 101 and HIST 217	4-6	_____

SPECIAL PROGRAM REQUIREMENTS (37 Credits):

	CR	SEMESTER
CIT 112B Network+	3	_____
CIT 160 Introduction to Computer Security	3	_____
CIT 260 Systems Analysis and Design	3	_____
CIT 263B Project Management	3	_____
CIT 295B Capstone Course	1	_____
IS 100B Core Computing Competency	0-3	_____
or		
IS 101 Introduction to Information Systems		_____
IS 115 Introduction to Programming	3	_____
Plus 3-6 Credits From the following ACC 201, CF, CIT, CS, CSCO, EGG 132, GIS, GRC 103, 175, IS	3-6	_____

Continued from previous column.

	CR	SEMESTER
FOR COMPUTER APPLICATIONS:		
ACC 223B Introduction to QuickBooks	3	_____
CIT 154B Dynamic Web Applications	3	_____
CIT 201B Word Certification Preparation	3	_____
CIT 202B Excel Certification Preparation	3	_____
CIT 203B Access Certification Preparation	3	_____
FOR DATABASE:		
CIT 180 Database Concepts and SQL	3	_____
CIT 181 Introduction to Oracle	3	_____
CIT 183 Database Administration	3	_____
CIT 184 Oracle PL/SQL Programming I	3	_____
CIT 285B Advanced Database Topics	3	_____
FOR GIS:		
GIS 109 Introduction to Geographic Information Systems	3	_____
GIS 111 Introduction to Remote Sensing	3	_____
GIS 205 GIS Applications	3	_____
GIS 214B Customizing ArcGIS Using .NET Framework	3	_____
GIS 236 GIS Applications II	3	_____
FOR PROGRAMMING: Must choose 5 courses AND must complete BOTH beginning and advanced courses for 2 languages.		
JAVA		
CIT 130 Beginning Java	3	_____
CIT 230 Advanced Java	3	_____
C		
CIT 131 Beginning C Programming	3	_____
CIT 231 Advanced C Programming	3	_____
VB.NET		
CIT 132 Beginning Visual Basic	3	_____
CIT 232 Advanced Visual Basic	3	_____
C++		
CIT 133 Beginning C++	3	_____
or		
CS 135 Computer Science I		_____
CIT 233 Advanced C++	3	_____
or		
CS 202 Computer Science II		_____
C#		
CIT 134B Beginning C# Programming	3	_____
FOR WEB DEVELOPMENT:		
CIT 151 Beginning Web Development	3	_____
CIT 152 Web Script Language Programming	3	_____
CIT 251 Advanced Web Development	3	_____
CIT 252 Web Database Development	3	_____
CIT 257 Web Languages	3	_____

Continued in next column.

NOTE: Courses with a B suffix (example - XYZ 123B) may be non-transferable for a NSHE baccalaureate degree. CITSOFTAAS

60
Total Credits

Students may elect to graduate using the degree requirements in effect at the time of matriculation, or when they declared or changed major or the current catalog. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program. In no case may a student use a catalog which is more than six years old at the time of graduation.

**Guided Pathway
Associate of Applied Science Degree
CIT Software/ Database
Total Credits – 60 credits
2014-2015 Catalog**

First Semester	Requirement	Credit Hours	Term
English Composition	ENG 100, 101, 107, 113	3	
Communications	COM 101, 102, 115	3	
Intro. To Info. Systems	IS 101 Or IS 100	0	
Intro to Programming	IS 115	3	
Human Relations	See Degree Sheet or Counselor	3	
Mathematics	Math 120 or above	3	
	TOTAL	15	
Second Semester	Requirement	Credit Hours	Term
Database Concepts/SQL	CIT 180***	3	
U.S. & NV Constitutions	PSC 101 or HIST 101 and HIST 102 or HIST 101 and HIST 217	4	
Network+	CIT 112	3	
Intro to Comp. Security	CIT 160	3	
Technical Physics	EGG 131	4	
	TOTAL	17	
Third Semester	Requirement	Credit Hours	Term
Introduction to Oracle	CIT 181	3	
Oracle PG/SQL Prog. 1	CIT 184	3	
Program Elective	CIT or option	3	
Program Elective	CIT or option	3	
Systems Analysis and Design	CIT 260	3	
	TOTAL	15	
Fourth Semester	Requirement	Credit Hours	Term
Database Administration	CIT 183	3	
Adv. Database Topics	CIT 285	3	
Project Management	CIT 263	3	
Capstone Course*	CIT 295	1	
Fine Arts/ Hum/Soc. Sci.	See Degree Sheet or Counselor	3	
	TOTAL	13	
	Degree TOTAL	60	

*The Capstone class must be taken in your last semester with Department consent.

** Summer Sessions can be used to lower semester loads – see your counselor.

*** CIT 180 & CIT 183 may be repeated with different content – the repeated sections may be used as program electives.

**** Preferred program electives for the Database Concentration – Any CIT 100 level programming language or any CIT 200 level programming language classes not taken for the emphasis, or from CIT 152, CIT 251, CIT 252.

**Guided Pathway
Associate of Applied Science Degree
CIT Software/ Programming
Total Credits – 60 credits
2014-2015 Catalog**

First Semester	Requirement	Credit Hours	Term
English Composition	ENG 100, 101, 107, 113	3	
Communications	COM 101, 102, 115	3	
Intro. To Info. Systems	IS 101 or IS 100	0	
Intro to Programming	IS 115	3	
Human Relations	See Degree Sheet or Counselor	3	
Mathematics	Math 120 or above	3	
	TOTAL	15	
Second Semester	Requirement	Credit Hours	Term
Beginning Prog. Lang.	CIT 100 Level Prog. Lang.	3	
U.S. & NV Constitutions	PSC 101 or HIST 101 and HIST 102 or HIST 101 and HIST 217	4	
Network+	CIT 112	3	
Technical Physics	EGG 131	4	
	TOTAL	14	
Third Semester	Requirement	Credit Hours	Term
Intro to Comp. Security	CIT 160	3	
Beginning Prog. Lang.	CIT 100 Level Prog. Lang.	3	
Program Elective	CIT or option***	3	
Program Elective	CIT or option***	3	
Advanced Prog. Lang.	CIT 200 Level Prog. Lang.	3	
	TOTAL	15	
Fourth Semester	Requirement	Credit Hours	Term
Advanced Prog. Lang.	CIT 200 Level Prog. Lang.	3	
Beginning Prog. Lang.	CIT 100 Level Prog. Lang.	3	
Systems Analysis and Design	CIT 260	3	
Project Management	CIT 263	3	
Capstone Course*	CIT 295	1	
Fine Arts/ Hum/Soc. Sci.	See Degree Sheet or Counselor	3	
	TOTAL	16	
	Degree TOTAL	60	

*The Capstone class must be taken in your last semester with Department consent.

** Summer Sessions can be used to lower semester loads – see your counselor.

***Preferred program electives for the Programming Concentration – Any CIT 100 level programming language or any CIT 200 level programming language classes not taken for the emphasis, or from CIT 151, CIT 152, CIT 184, CIT 257.

**Guided Pathway
Associate of Applied Science Degree
CIT Software/ Web Development
Total Credits – 60 credits
2014-2015 Catalog**

First Semester	Requirement	Credit Hours	Term
English Composition	ENG 100, 101, 107, 113	3	
Communications	COM 101, 102, 115	3	
Intro. To Info. Systems	IS 101 Or IS 100	0	
Human Relations	See Degree Sheet or Counselor	3	
Mathematics	Math 120 or above	3	
Intro to Programming	IS 115	3	
	TOTAL	15	
Second Semester	Requirement	Credit Hours	Term
Beg. Web Development	CIT 151	3	
U.S. & NV Constitutions	PSC 101 or HIST 101 and HIST 102 or HIST 101 and HIST 217	4	
Network+	CIT 112	3	
Intro to Comp. Security	CIT 160	3	
Technical Physics	EGG 131	4	
	TOTAL	17	
Third Semester	Requirement	Credit Hours	Term
Web Script Lang. Prog.	CIT 152	3	
Web Database Develop.	CIT 252	3	
Program Elective	CIT or option***	3	
Program Elective	CIT or option***	3	
Systems Analysis and Design	CIT 260	3	
	TOTAL	15	
Fourth Semester	Requirement	Credit Hours	Term
Advanced Web Develop.	CIT 251	3	
Web Languages	CIT 257	3	
Project Management	CIT 263	3	
Capstone Course*	CIT 295	1	
Fine Arts/ Hum/Soc. Sci.	See Degree Sheet or Counselor	3	
	TOTAL	13	
	Degree TOTAL	60	

*The Capstone class must be taken in your last semester with Department consent.

** Summer Sessions can be used to lower semester loads – see your counselor.

***Preferred program electives for the Web Development Concentration – Any CIT 100 level programming language or any CIT 200 level programming language classes not taken for the emphasis, or from CIT 180, CIT 183