CIS: COMP SCI & INFO SYSTEMS

Courses

	Credit(s)	Contact	Lab
CIS 2910C. IT CAPSTONE.	3	2	1
CIS 2930. SELECTED TOPICS IN INFORMATION SYSTEMS.	1-4	variable	

SELECTED TOPICS IN INFORMATION SYSTEMS Prerequisite: Departmental approval. Selected topics in computer information systems based on the needs and areas of interest of the class and the professor. May include laboratory and/or field work as part of the class. Multiple credit course. May be repeated for credit, but grade forgiveness cannot be applied.

CIS 2941. INTERNSHIP EXPLORATION IN COMPUTER STUDIES.	1-4	variable	

INTERNSHIP EXPLORATION IN COMPUTER STUDIES Prerequisites: Satisfactory completion of all mandated courses in Reading, Mathematics, English and English for Academic Purposes; a minimum 2.0 institutional or overall GPA, and 12 credits. The Program Director/ Program Chair/Program Coordinator or Internship Placement Office has the discretion to provide override approval as it relates to the waiver of required program/discipline-related courses. This course provides a planned work-based experience that will provide students with supervised career exploration activities and/or practical experiences to assist in confirming their education plans. Each earned credit hour of internship requires a minimum of 80 clock hours of work. May be repeated for credit, but grade forgiveness cannot be applied.

CIS 2942. INTERNSHIP IN COMPUTER PROGRAMMING.	1-4	variable	

INTERNSHIP IN COMPUTER PROGRAMMING Prerequisites: Satisfactory completion of all mandated courses in Reading, Mathematics, English and English for Academic Purposes; a minimum 2.0 institutional or overall GPA; and 12 credits of courses with COP prefix. The Program Director/Program Chair/Program Coordinator or Internship Placement Office has the discretion to provide override approval as it relates to the waiver of required program/discipline-related courses. This course is a planned work-based experience that provides students with supervised career exploration activities and/ or practical experiences. Each earned credit of internship requires a minimum of 80 clock hours of work. Multiple credit course. May be repeated for credit, but grade forgiveness cannot be applied.

CIS 2943. INTERNSHIP IN COMPUTER INFORMATION TECHNOLOGY.	1-4	variable	

INTERNSHIP IN COMPUTER INFORMATION TECHNOLOGY Prerequisites: Satisfactory completion of all mandated courses in Reading, Mathematics, English, and English for Academic Purposes; a minimum 2.0 institutional or overall GPA; and 12 credits, including CTS 1131C and CTS 1120, or CTS 1155; or Program Dir./Program Chair/Internship Office approval. This is a planned work-based experience that provides students with an opportunity to fine-tune skill sets learned in course work and enhance workplace skills through supervised practical experiences related to their career objectives. Each earned credit of Internship requires a minimum of 80 clock hours of work. Multiple credit course. May be repeated for credit up to a maximum of 4 hours, but grade forgiveness cannot be applied.

CIS 3080. CLOUD ADMINISTRATOR ESSENTIALS.	3	3	0
CIS 3083C. CLOUD MANAGEMENT AND DESIGN.	3	2	1

CLOUD MANAGEMENT AND DESIGN Prerequisite: Admission to the B.A.S. Degree in Computing Technology and Software Development, and a minimum grade of C in CIS 3080. Students will learn how to manage and design cloud services. Students will learn how to create virtual cloud machines, design storage architecture, and build appropriate processes. Students will learn how security and design are crucial to move platforms in and out of the cloud. Case studies will be used to showcase the application of these services to the modern cloud platform. Students will design services and redundancy in a global infrastructure. This course prepares the student for certification exams commonly offered in the cloud computing industry.

CIS 3304C. MANAGEMENT INFORMATION SYSTEMS.	3	2	1
CIS 3641. CLOUD DEVELOPER ESSENTIALS.	3	3	0

CLOUD DEVELOPER ESSENTIALS Prerequisite: Minimum grades of C in CIS 3080 and CIS 3083C. This course is designed to help students gain technical expertise in development with cloud technologies. Throughout the course, students will explore scenarios that provides opportunities to build a variety of infrastructures through the use of cloud developer technologies. Students will build apps through code driven languages and secure them in a cloud environment. In addition, students will use functions, containers, and application program interfaces to build cloud solutions. This course prepares the student for certification exams commonly offered in the cloud computing industry.

CIS 3644. CYBERSECURITY IN CLOUD COMPUTING.	3	3	0
CIS 3652. CLOUD DATA ANALYTICS ESSENTIALS.	3	3	0

CLOUD DATA ANALYTICS ESSENTIALS Prerequisite: Minimum grades of C in CIS 3080 and CIS 3083C. Data Analytics teaches students how to conduct Big Data analysis with practical, real-world examples. Students will learn how to analyze extremely large data sets, and to create visual representations of that data, using a case-study approach. Geared toward students interested in pursuing careers in data analysis. This course prepares the student for certification exams commonly offered in the cloud computing industry.