

Career Cluster: Information Technology

Secondary CTE Program: Business Technology Education/AOIT

Database and Programming Essentials

Career Cluster Pathway: (Program # 8206400)

Eligible Recipient: All Students



16 CORE CURRICULUM CREDITS					8 ADDITIONAL CREDITS		
ENGLISH	MATH	SCIENCE	SOCIAL STUDIES	OTHER REQUIRED COURSES	CAREER AND TECHNICAL EDUCATION COURSES	RECOMMENDED ELECTIVES (Aligned with State University System Admissions)	
4 credits	4 credits	3 credits, 2 with lab	3 credits				FINE ARTS (1 cdt) PHYSICAL EDUCATION (1 cdt)

HIGH SCHOOL Career Cluster of interest identified by students enrolled in required middle school career education course that includes interest assessment and career exploration through CHOICES and ePersonal Education Planner through FACTS.org.

Grade	English	Math	Science	Social Studies	Other Required Courses	Career and Technical Education Courses	Recommended Electives
9	English I	Algebra or Higher	Earth & Space Science or Biology	World History	9th Grade Transition	Introduction to Information Technology 820731001 OR Computing for College and Career 820902001	
10	English II	Geometry or Higher	Biology or Chemistry	Elective	Physical Education	Database Fundamentals 820641003	
11	English III	Algebra II or Higher	Chemistry or Physics or Physical Science	American History	Foreign Language or Other Elective	Data Control & Functions (Honors) 820642003	
12	English IV	Pre-Calculus or Other Math Course	Science Elective or Other Elective	American Government and Economics	Foreign Language or Other Elective	Specialized Programming 820643002	Specialized Database Applications 820644002

Dual enrollment courses may be used to satisfy high school graduation or Bright Futures Gold Seal Vocational Scholars course requirements - see the Articulation Coordinating Committee's Dual Enrollment Equivalency List and the Bright Futures Comprehensive Course Table.

POSTSECONDARY Secondary career and technical education programs may lead to industry recognized certificates, occupational opportunities or postsecondary education options. Based on the Career Cluster of interest and identified career and technical education program, the following postsecondary options are available.

TECHNICAL CENTER PROGRAM(S)	COMMUNITY COLLEGE PROGRAM(S)	UNIVERSITY PROGRAM(S)
Not Applicable	Miami Dade College Associate of Science (AS) Database Technology Marketing Management College Credit Certificate (CCC) Oracle Database Administrator	GO TO: www.facts.org to find all Florida university programs STEP 1: Click on "Finding a College or Program" STEP 2: Click on "Find a Degree Program" STEP 3: Complete a search by selecting Institution Type, and specifying the Program Area and Degree Level.

CAREER **SAMPLE CAREER SPECIALTIES**
(The Targeted Occupations List may be used to identify appropriate careers.)

Database Clerk Data Entry and Information Processing Clerk Database Programmer Independent Business Owner	Computer & Information Systems (CIS) Manager Computer Programmer Database Administrator	Management Consultant Network Administrator
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CREDIT **ARTICULATION AND CTE DUAL ENROLLMENT OPPORTUNITIES**

Secondary to Technical Center (PSAV)	Secondary to College Credit Certificate or Degree	PSAV/PSV to AAS or AS to BS or BAS
Occupational Completion Points Information Technology Assistant (OCP A) Computer Programming Aide (OCP A)	Dual Enrollment Opportunities ENC 1101 English Composition I MAC 1105 College Algebra SPC 1017 Fundamentals of Speech Communication PSY 2012 Introduction to Psychology Miami Dade College Articulated Courses (AS) CIS 1000 Introduction to Data Processing CTS 2440 SQL & PL/SQL Introduction to Oracle CTS 2441 Introduction to Oracle: Database Administration Art Institute of Fort Lauderdale (AiFL) Articulated Courses CGS 2800C Basic Web Design IS2201 Database Concepts COP 1845C Introduction to Scripting & Programming Languages	Not Applicable

***Possible Industry Certifications (Students):**

Secondary:	CompTIA A+ Certification
Postsecondary:	