

**Semester 1**

Course ID	Course Title	Credits	Pre/Co-requisites
CGS 1060C	Intro to Computer Technology and Applications	4	
COP 1334	Introduction to C++ Programming	4	
ENC 1101	English Composition I	3	Prerequisite: Student must meet the Developmental Education reading and writing requirements in State Rule 6A-10.0315 (by course, placement score, or eligible exemption).
MAC 1105	College Algebra	3	Prerequisite: MAT 1033♦ ♦Students must seek advisement for proper mathematics course from discipline chairperson
<b>Semester Credits</b>		<b>14</b>	

**Semester 2**

Course ID	Course Title	Credits	Pre/Co-requisites
CGS 1540C	Database Concepts and Design	4	
CTS 2440*	Introduction to Oracle: SQL and PL/SQL	4	Prerequisite: CGS 1060C
CTS 2441*	Introduction to Oracle Database Administration	4	Prerequisite: CTS 2440 <b>Note:</b> CTS 2440 and CTS 2441 are offered during mini terms.
<b>Semester Credits</b>		<b>12</b>	

**Semester 3**

Course ID	Course Title	Credits	Pre/Co-requisites
Social Science	AMH 2010, AMH 2020, POS 2041	3	
Elective	CAP*, CEN*, CGS*, CIS*, COP*, CTS*	4	<b>Note:</b> Electives are restricted to courses listed. Check with advisor for requisite information
Natural Science	AST 1002, BSC 1005, CHM 1020, ESC 1000, EVR 1001, GLY 1010, OCE 1001, PHY 1020	3	<b>Note:</b> Check with advisor for requisite information
<b>Semester Credits</b>		<b>10</b>	

**Semester 4**

Course ID	Course Title	Credits	Pre/Co-requisites
CTS 2442*	Intermediate Oracle Database Administration	4	Prerequisite: CTS 2441
COP 2800	Java Programming	4	Prerequisite: COP 1334
Elective	CAP*, CEN*, CGS*, CIS*, COP*, CTS*	4	<b>Note:</b> Electives are restricted to courses listed. Check with advisor for requisite information
<b>Semester Credits</b>		<b>12</b>	

**Semester 5**

Course ID	Course Title	Credits	Pre/Co-requisites
CTS 2444*	Oracle Database Performance Tuning	4	Prerequisite: CTS 2442
Humanities	ARH 1000, HUM 1020, LIT 2000 MUL 1010, PHI 2010, THE 2000	3	<b>Note:</b> ENC 1101 is a prerequisite to LIT 2000.
Elective	CAP*, CEN*, CGS*, CIS*, COP*, CTS*	5	<b>Note:</b> Electives are restricted to courses listed. Check with advisor for requisite information
<b>Semester Credits</b>		<b>12</b>	
<b>Program Total</b>		<b>60</b>	

**Academic Pathway at MDC:** The AS in Computer Engineering Technology is a pathway to the [BAS in Supervision and Management](#). ★ Course leads to a [College Credit Certificate \(CCC\) in Oracle Certified Database Administrator](#). To learn more about the courses listed see [College Catalog](#).