

2012-2013 Academic Year

Plan of Study for the Associate of Applied Science Degree in

Computational Science Technology***

Datatel Program Code	CSC.AAS
COTC Major Number	2070.00
CIP Code	30.3001

*****This program is offered pending the final approval of the Ohio Board of Regents*****

A grade of C (2.00) or better is required for all Computational Science and Information Technologies courses listed as prerequisites for advanced courses.

The student who successfully completes the courses listed below on this Plan of Study will earn an
Associate of Applied Science Degree in Computational Science Technology.

KEY:

* Indicates this course has a prerequisite; please see the Course Description Section on the COTC Web Page

NT - Indicates this course fulfills a Non-Technical Course Requirement on this Plan of Study

NT Elec - Indicates Elective Choice in the Non-Technical course requirement category

T - Indicates this course fulfills a Technical Course Requirement on this Plan of Study

T Elec - Indicates Elective Choice in the Technical course requirement category

TAG, C-TAG, OTM - Designation in this column indicates this course has been approved by the Ohio Board of Regents as a Transfer Assurance Guide (TAG), Career Technical Assurance Guide (C-TAG), or Ohio Transfer Module (OTM) course. Please follow this link on the COTC web site for more information: <http://www.cotc.edu/current-students/tags-transfer-module/Pages/index.aspx>

Course Name	Course Title	Course Credit Hours	Weekly Contact Hours	Tech, Non-Tech or Elective	Semester(s) Course Offered	SEM Course Approved As A TAG, C-TAG or OTM	Equivalent Quarter Course	Equivalent Quarter Cr Hrs
SEMESTER 1								
* BIO-160	Biology I	5.00	7.00	NT	SM,AU,SP	TAG	BIO-1780	6.00
CIT-102	Computer Applications for Technology Professionals	3.00	5.00	T	AU	-----	CMP-2502	3.00
CSC-100	Exploring Computational Science	1.00	2.00	T	AU	-----	None	-----
* ENGL-110	Composition I	3.00	3.00	NT	SM,AU,SP	OTM	COM-1535	4.00
IDS-100	Campus Connections	1.00	2.00	NT	SM,AU,SP	-----	None	-----
* MATH-150	Pre-Calculus	3.00	3.00	NT	SM,AU,SP	OTM	MTH-1216	5.00
TOTAL CREDIT & CONTACT HOURS		16.00	22.00					
SEMESTER 2								
* BIO-161	Biology II	5.00	7.00	NT	SM,AU,SP	TAG	BIO-1781	6.00
* CSC-110	Investigation Into Computational Methods	3.00	4.00	T	SP	-----	None	-----
* MATH-200	Calculus I	5.00	5.00	NT	SM,AU,SP	OTM	MTH-1233 & MTH-1234	5.00 & 5.00
	Non-Technical Elective - English & Communications	3.00	3.00	NT Elec	See Choices Below			
	Non-Technical Elective - Social & Behavioral Science	3.00	3.00	NT Elec	See Choices Below			
TOTAL CREDIT & CONTACT HOURS		19.00	22.00					
SEMESTER 3								
CIT-105	Principles of Computer Programming	3.00	5.00	T	AU	-----	CMP-2596	4.00
* CIT-170	Data Modeling	3.00	5.00	T	AU	-----	None	-----
* CIT-175	Medical Infomatics	3.00	5.00	T	AU	-----	None	-----
* CSC-115	Modeling and Simulation	4.00	6.00	T	AU	-----	None	-----
	Technical Elective	3.00	6.00	T Elec	See Choices Below			
TOTAL CREDIT & CONTACT HOURS		16.00	27.00					

The College Reserves the Right to Change Curricula Without Notice.

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SEMESTER 4								
* CSC-200	Computational Biology	4.00	6.00	T	SP	-----	None	-----
* CSC-210	Computational Science Practicum	1.00	8.00	T	SP	-----	None	-----
SPCH-205	Public Speaking	3.00	3.00	NT	SM,AU,SP	TAG	COM-1504	3.00
	Non-Technical Elective - Arts & Humanities	3.00	3.00	NT Elec	See Choices Below			
	Technical Elective	3.00	6.00	T Elec	See Choices Below			
TOTAL CREDIT & CONTACT HOURS		14.00	26.00					

Total Semester Credit Hours Required for Completion of Degree		65.00
	<i>Non-Technical Required Semester Credit Hours</i>	34.00
	<i>Technical Required Semester Credit Hours</i>	31.00

Non-Technical Elective - Arts and Humanities								
Total of 3.00 Semester Credit Hours Required from the Course Choices Listed Below to Complete this Degree								
* PHIL-100	Critical Thinking	3.00	3.00	NT Elec	SM,AU,SP	OTM	BHS-1006	3.00
* PHIL-150	Introduction to Philosophy	3.00	3.00	NT Elec	SM,AU,SP	-----	None	-----
* PHIL-200	Introduction to Ethics	3.00	3.00	NT Elec	SM,AU,SP	TAG,OTM	BHS-1340	3.00

Non-Technical Elective - English and Communications								
Total of 3.00 Semester Credit Hours Required from the Course Choices Listed Below to Complete this Degree								
* ENGL-111	Composition II	3.00	3.00	NT Elec	SM,AU,SP	OTM	COM-1536	4.00
* ENGL-205	Business and Professional Communication	3.00	3.00	NT Elec	SM,AU,SP	TAG	None	-----
* ENGL-211	Survey of American Literature I	3.00	3.00	NT Elec	SM,AU,SP	OTM	COM-1551	4.00
* ENGL-212	Survey of American Literature II	3.00	3.00	NT Elec	SM,AU,SP	OTM	COM-1552	4.00

Non-Technical Elective - Social And Behavioral Sciences								
Total of 3.00 Semester Credit Hours Required from the Course Choices Listed Below to Complete this Degree								
* PSYCH-100	Introduction to Psychology	3.00	3.00	NT Elec	SM,AU,SP	TAG,OTM	BHS-1376	5.00
* PSYCH-220	Social Psychology	3.00	3.00	NT Elec	SM,AU,SP	TAG	BHS-1370	5.00
* PSYCH-230	Organizational Psychology	3.00	3.00	NT Elec	SM,AU,SP	-----	BHS-1385	3.00
* SOC-100	Introduction to Sociology	3.00	3.00	NT Elec	SM,AU,SP	TAG,OTM	BHS-1382	3.00
* SOC-110	Cultural Diversity	3.00	3.00	NT Elec	SM,AU,SP	TAG,OTM	BHS-1379	3.00

Datatel Program Code	CSC.AAB
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Technical Electives								
Total of 6.00 Semester Credit Hours Required from the Course Choices Listed Below to Complete this Degree								
BUS-125	PC Applications in Business	3.00	4.00	T Elec	SM,AU,SP	-----	BMT-2464	4.00
BUS-155	Spreadsheet Applications	3.00	4.00	T Elec	SM,AU,SP	-----	BMS-2038 & BMS-2039	3.00 & 4.00
CIT-101	Help Desk Concepts	3.00	4.00	T Elec	AU	-----	CMP-2501	3.00
CIT-103	Technology Integration Support	3.00	5.00	T Elec	AU,SP	-----	CMP-2505	3.00
CIT-120	PC Hardware: Trouble-shooting & Maintenance	3.00	5.00	T Elec	AU,SP	-----	EET-3039	3.00
CIT-125	Networking	4.00	6.00	T Elec	AU,SP	-----	EET-3306 & EET-3326	3.00 & 4.00
DMD-101	Digital Software Fundamentals	1.00	3.00	T Elec	AU,SP	-----	DMD-3860	2.00
* DMD-104	Design Fundamentals	3.00	5.00	T Elec	SP	-----	DMD-3820	3.00
DMD-106	Mass Media Communications	3.00	4.00	T Elec	SP	TAG	DMD-3836	3.00
DMD-107	Introduction to e-Life, the Evolving Web	3.00	3.00	T Elec	AU,SP	-----	DMD-3862	3.00
* DMD-203	Interactive and Mobile Site Design	3.00	5.00	T Elec	AU,SP	-----	DMD-3864	3.00
* ENGR TCH-241	Digital Electronics I	3.00	5.00	T Elec	AU	-----	EET-3154	4.00
* CSC-197-199	Special Topics in Computational Science	0.50-3.00	0.50-3.00	T Elec	SP	-----	None	-----
* CSC-297-299	Special Topics in Computational Science	0.50-3.00	0.50-3.00	T Elec	SP	-----	None	-----