## LAWRENCE TECHNOLOGICAL UNIVERSITY

**COLLEGE OF ARTS & SCIENCES** 

**Bachelor of Science in Computer Science** 

Concentration in Scientific Software Development

Name	
Number	Date
	Catalog of Entry 2015 – 2016

## WHEN CLASSES ARE OFFERED F=Fall SP=Spring SU=Summer ALL-All Semesters

	Developmental Classes	Surplus Electives	
	15	15 UG Credits	123
.L	LDR 4000 Leadership Capstone		
SP	MCS 4623 Software Engineering	Open General Elective 1000-4000 3 credit elective	ALL
SP	MCS 4883 Senior Project	MCS 4843 Senior Project 2	_ ALL
SP	MCS 4613 Computer Networks	LLT 3xx3 or 4xx3 Junior / Senior Elective	ALL
.L	SSC/PSY 3xx3 or 4xx3 Junior / Senior Elective	MCS 4653 Theory of Computation	F,SF
.L	Open General Elective 1000-4000 3 credit elective _	MCS 4643 Comparative Programming Language	F,SF
	* Choose from MCS2423 Differential Equations, MCS340	33 Probability & Statistics, or MCS3863 Linear Algebra  16	
.L	MCS xxx3 Math Elective *	PHY 2431 University Physics 2 Lab	ALL
.L	Computer Science 1000-4000 level Elective	PHY 2423 University Physics 2	ALL
.L	PHY 2421 University Physics 1 Lab	MCS 4663 Operating Systems	F,SI
.L	PHY 2413 University Physics 1	Open General Elective 1000-4000 3 credit elective _	ALL
.L	MCS 3663 Computer Architecture & Assembler	Open General Elective 1000-4000 3 credit elective _	ALL
SP	MCS 3543 Database Systems	Computer Science 1000-4000 3 credit Level Elective	ALL
.L	COM 3000 Writing Proficiency Exam	LDR 3000 Leadership Seminar Series	F,SF
	15	16	
.L	LDR 2001 Leadership Models & Practices	Open General Elective 1000-4000 3 credit elective	ALL
.L	MCS 2414 Calculus 3	Computer Science 1000/4000 Elective	ALL
SP	MCS 2523 Discrete Math	MCS 3633 Functional Programming	F,SI
SP 	MCS 2514 Computer Science 2	MCS 2534 Data Structures	F,SI
.L	LLT 1223 World Masterpieces 2	COM 2103 Technical & Professional Communication	
	13	17	
SP	MCS 1142 Intro to C	SSC/PSY3 1000-4000 level Elective	ALL
.L	MCS 1414 Calculus 1	MCS 1424 Calculus 2	ALL
.L	SSC 2413 Foundations of American Experience	MCS 1514 Computer Science 1	ALL
.L	COM 1103 English Composition	LLT 1213 World Masterpieces 1	ALL
SP	COM 1001 University Seminar	SSC 2423 Development of American Experience	_  ALL