

## Computer Science Program: Standard Option Curriculum Requirements Catalog Year 2014-15 (Class of 2018) to present

FRESHMAN YEAR																				
First Sen	nester		<u>R</u>	L	<u>C</u>	Secon	d Seme	<u>ester</u>	<u>R</u>	L	<u>C</u>									
<b>ENL</b>	101	Critical Writing & Reading I	3	0	3	ENL	102	Critical Writing & Reading II	3	0	3									
CIS	180	Object-Oriented Programming I	3	2	4	CIS	181	Object-Oriented Programming II	3	2	4									
EGR	111	Intro to Engineer & Computing	3	2	3			University Studies <sup>1</sup>	3	0	3									
MTH	153	Calc for Appl Science Engineering I	4	0	4	MTH	154	Calc for Appl Science Engineering II	4	0	4									
					14						14									
CODHOMODE WEAD																				
SOPHOMORE YEAR First Semester R L C Second Semester											C									
		Discussion Characteristics I	<u>R</u> 3	$\frac{L}{0}$	<u>C</u> 3			ester Discrete Structures II	<u>R</u> 3	<u>L</u> 0	<u>C</u>									
MTH	181	Discrete Structures I	3		3 4	MTH CIS	182													
CIS CIS	190	Intro. To Procedural Programming	3	2 2	-	CIS	273	Computer Organization & Design	3	2	4									
CIS	272	Introduction to Computing Systems	3	3	4	CIS	280	Software Specification & Design	3	2	4									
		Laboratory Science I <sup>2, 4</sup>	3	3	4			Laboratory Science II 3, 4	3	3	4									
					15						15									
JUNIOR YEAR																				
First Sen								ester	<u>R</u>	L	С									
CIS	360	Algorithms and Data Structures	<u>R</u> 3	0	3	CIS	361	Models of Computation	3	<u>L</u> 0	<u>C</u> 3									
CIS	370	Design of Operating Systems	3	2	4	CIS	362	Empirical Methods for CS	3	0	3									
MTH	331	Probability	3	0	3	CIS	381	Social & Ethical Aspects of CS <sup>5</sup>	3	0	3									
<b>ENL</b>	266	Technical Communications	3	0	3			Science Elective 4,6	3	0	3									
		University Studies <sup>1</sup>	3	0	3			University Studies <sup>1</sup>	3	0	3									
		•			16			,			15									
				O.T.	NITOI	- T/E / D														
Cinct Con			D			RYEAR	1 C		D	T	C									
First Sen		G.G Fariancia Daria I	<u>R</u> 3	<u>L</u> 2	<u>C</u>		d Seme		<u>R</u> 2	<u>L</u> 2	<u>C</u> 3									
CIS	498	Software Engineering Project I	3		4	CIS	499	Software Engineering Project II	2											
CIS		CIS Technical Elective <sup>7</sup>		0	3	CIS	481	Parallel & Distributed Computing	3	0	3									
CIS		CIS Technical Elective <sup>7</sup>	3	0	3	CIS		CIS Technical Elective 7	3	0	3									
		University Studies <sup>1</sup>	3	0	3	CIS		CIS Technical Elective <sup>7</sup>	3	0	3									
		Free Elective	3	0	3 <b>16</b>			University Studies <sup>1</sup>	3	0	3 <b>15</b>									
					10						13									
<b>Total Credits = 120</b> R = Recitation & Lecture (hours) L = Laboratory (hours) C = Number of Credits																				
										Tomi Credits - 120 R - Recitation & Lecture (nours) L - Laboratory (nours) C - Number of Credits										

<sup>&</sup>lt;sup>1</sup>See University Studies requirements for Clusters 3 and 4.

<sup>&</sup>lt;sup>2</sup>Must be either PHY 113 or CHM 151/161 or BIO 121/131.

<sup>&</sup>lt;sup>3</sup>Must be a continuation of Laboratory Science I (PHY 114 or CHM 152/162 or BIO 122/132).

<sup>&</sup>lt;sup>4</sup>Ideally one of these courses should also meet University Studies Cluster 2A

<sup>&</sup>lt;sup>5</sup>This course meets the University Studies Cluster 2B requirement.

<sup>&</sup>lt;sup>6</sup>Any course in BIO, CHM, MAR, MLS, or PHY.

<sup>&</sup>lt;sup>7</sup>Must be taken from approved list of courses.