

Name: Michael Caruana

Degree: Bachelor of Science

Robotics and Embedded Systems (Online) 2019-21 Catalog

School Evaluated

I. General Studies 36 Total Credits Required

Code	Course Title	Credits	Grade	UL	Transfer
TCH115	Thinking Strategies				
		0			

Mathematics/Science

Code	Course Title	Credits	Grade	UL	Transfer
MAT174	College Algebra	3	A		
PHY101	Physics				
AST301	The Solar System				
MAT220	Statistics				
MAT179	Pre-Calculus				
SCI188	Introductory Topics in Science				

Mathematics/Science Upper Division Minimum 3
Subtotal Mathematics/Science 3 Minimum 18

Humanities/Social Science

Code	Course Title	Credits	Grade	UL	Transfer
ENG101	English Composition				
ENG102	English Composition 2				
SS320	Contemporary Global Issues				
ENG310	Science Fiction as Literature	3	A		

Hum/S.S. Upper Division 3 Minimum 6
Subtotal Hum/S.S. 3 Minimum 12

General Education Elective

Code	Course Title	Credits	Grade	UL	Transfer
AST101	The Night Sky	3	A		

Subtotal Elective Maximum 3
I. Total General Studies 9 Minimum 36
Total General Studies Upper 3

II. University Core 21 Total Credits Required

Code	Course Title	Credits	Grade	UL	Transfer
SIP311	Senior Innovation Project I: Innovation				
SIP408	Student Innovation Project II				
SIP409	Student Innovation Project III				
SIP411	Boards Presentation				
COM226	Communication In Technology	3	A		
BUS200	Entrepreneurship to Market	3	A		
TCH310	Technology, Ethics, and Society				
PDS300	Production Studio I				
PDS400	Production Studio II				

II. Total University Core 6 21 Credits
Total Core Upper Division 0

Indicates a required course

III. Degree Specific 30 Total Credits Required

Code	Course Title	Credits	Grade	UL	Transfer
CSC102	Introduction to Programming				
DBM100	3D Build Tools				
RBT131	Digital Logic Basic Processor Design	3	A		
CSC215	C/C++ Programming I				
RBT205	Mechanics and Materials				
RBT220	Introduction to Mechanical Concepts				
CSC211	Introduction to Databases				
CSC230	Internet of Things				
CSC382	Data Structures and Algorithms				
RBT173	Introduction to Microcontrollers				
CSC370	Artificial Intelligence				

III. Total Degree Specific 3 Minimum 30
Total Degree Specific Upper Division 0

IV. Electives 33 Credits Minimum

Code	Course Title	Credits	Grade	UL	Transfer
SPT323	ARM Programming	3	A	3	
VRT101	Virtual Reality Tools & Hardware	3	A		
Gam101	Introduction to Game Design	3	A		
CSC318	Software Engineering Principles				
RBT211	Arduino Embedded Programming				
CSC438	Algoritims, Frameworks and Design Patterns for AI				
CSC444	Deep Learning				
RBT347	Robot Navigation				
RBT353	Robot Competition				
RBT431	Autonomous Aerial Vehicles				
RBT441	Autonomous Ground Vehicles				
RBT479	Mechatronics				

IV. Total Electives 9 Maximum 33
Total Electives Upper Division 3

Degree Requirements Summary		Check if completed	
I. Total General Studies	9	Minimum 36	0
II. Total University Core	6		
III. Total Degree Specific	3	Minimum 30	
IV. Total General Electives	9		
Total Credits	27	Minimum 120	
Cumulative Grade Point Average	4.00	Minimum 2.0	
Portfolio & SIP Approved			
Subtotal Degree Specific	3	Minimum 30	
Subtotal Upper Division Overall	6	Minimum 39	
Subtotal General Studies Upper	3	Minimum 6	
Subtotal Core, Degree Specific, and Electives	18	Minimum 84	
Subtotal Thinking	0	Minimum 3	
Subtotal Math/Science	3	Minimum 18	
Subtotal Hum/S.S	3	Minimum 12	