

# ENGINEERING AND ROBOTICS CAREER PATHWAY

## Preparations that can add this Endorsement:

Preparation	Pedagogy		CTE Methods		Test		Coursework		Other
Early Childhood	X	AND	X			AND	X	OR	X
Elementary	X	AND	X			AND	X	OR	X
Secondary			X			AND	X	OR	X
CTE Preparation							X	OR	X
K-12			X			AND	X	OR	X
Early Childhood SPED	X	AND	X			AND	X	OR	X
K-12 SPED			X			AND	X	OR	X
CTE Instructor			X			AND	X	OR	X

## State-Designated Pedagogy Requirements:

Test #	Test Name	Cut Score	Effective Date
5624	Principles of Learning and Teaching (7-12 PLT)	157	07/01/2012
<b>Waiver of Pedagogy Test</b>			<b>7-12 PLT</b>
The PLT test may be waived if verification of two or more years of state-certified teaching experience in the grade span of the endorsement is documented.			Experience in a 5-12 grade span

## Coursework Requirements:

9 Semester hours of coursework including:
<ul style="list-style-type: none"> <li>3 or more credits in engineering</li> <li>3 or more credits in robotics</li> </ul>

## Other Requirements (completion of one of the “other” requirements):

4000 Hours of Validated Work Experience in a Related Field within the previous five years		
Any field of engineering	Technical aspect of robotics	

ASSOCIATES DEGREE	
Robotics	Engineering Technology
Mechatronics	Architectural Engineering Technology
Civil Engineering Technology	Construction Management Technology
Land Surveying Science Technology	Mechanical Engineering Technology

## Assignment Codes:

Code	Assignment Description	Code	Assignment Description	Code	Assignment Description
02993	Mathematics – Test Preparation	21103	Drafting and Design II - Architectural	22151	Career Exploration
10004	Workplace Technology Skills			22152	Employability
10152	Computer Programming	21106	Mechanical Drafting & Design	22250	Exploratory
10153	Advanced Computer Programming	22001	Standardized Test Preparation	22990	JAG – Middle School
13001	Introduction to Manufacturing	22004	Dropout Prevention	22991	JAG – High School
17106	Electronics	22051	Office Aide (By Students)	25013	Life Management
21001	Introduction to Engineering	22054	Tutoring (By Students)	80018	Youth Internships
21007	Engineering Design and Development	22101	Leadership and Service	80019	Senior Experience
21009	Robotics	22104	Service Learning	80026	Entrepreneurship Experience
21014	Bioprocess Engineering	22106	Freshman Seminar	80020	Youth Apprenticeship
21102	Drafting and Design I	22110	AP Seminar	80033	E-Mentor (certified staff)