

# SCIENCE, TECHNOLOGY, ENGINEERING, AND MATHEMATICS (STEM) CAREER CLUSTER

## Preparations that can add this Endorsement:

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

## State-Designated Test Requirements:

Test #	Test Name	Cut Score	Effective Date
5051	PRAXIS Technology Education	154	07/14/2014
5053	PRAXIS Technology and Engineering Education	157	09/01/2024

## Coursework Requirements:

15 Semester hours of coursework
<ul style="list-style-type: none"> <li>Six credits in the following: <ul style="list-style-type: none"> <li>3 or more credits in robotics</li> <li>3 or more credits in engineering</li> </ul> </li> <li>Nine credits in one or more of the following areas: <ul style="list-style-type: none"> <li>Aviation</li> <li>Computer science/programming</li> <li>Energy</li> <li>Electronics</li> </ul> </li> </ul>

## Assignment Codes:

Code	Assignment Description	Code	Assignment Description	Code	Assignment Description
02993	Mathematics – Test Preparation	21009	Robotics	22051	Office Aide (By Students)
10004	Workplace Technology Skills	21014	Bioprocess Engineering	22054	Tutoring (By Students)
13001	Introduction to Manufacturing	21049	MS Mechatronics / Robotics	22101	Leadership and Service
13204	Advanced Machine Tooling Technology	21050	Exploring STEM in CTE	22990	JAG – Middle School
17106	Electronics	21051	Introduction to Technology Education	22991	JAG – High School
20053	Aviation I	21060	Alternate Energy Systems	25013	Life Management
20056	Fundamentals of Aviation	21102	Drafting and Design I	80018	Youth Internships
20057	Aviation II	21103	Drafting and Design II - Architectural	80019	Senior Experience
20101	Introduction to Energy/Power	21106	Mechanical Drafting & Design	80026	Entrepreneurship Experience
21001	Introduction to Engineering	22001	Standardized Test Preparation	80020	Youth Apprenticeship
21007	Engineering Design and Development	22004	Dropout Prevention	80033	E-Mentor (certified staff)