

# BUSINESS AND INDUSTRY ENDORSEMENT

To earn a Business and Industry Endorsement, a student must complete a coherent sequence of courses for **FOUR OR MORE CREDITS** that consist of at least **TWO COURSES IN THE SAME CLUSTER AT LEAST ONE OF WHICH IS ADVANCED.**

## **Agriculture, Food, and Natural Resources Cluster**

<i>Course</i>	<i>Placement</i>	<i>Credit(s)</i>	<i>Advanced?</i>
<b>Animal Emphasis</b>			
Principles of Agriculture, Food, and Natural Resources	9-12	1	N
Small Animal Management	10-12	.5	N
Professional Studies in Agribusiness	10-12	.5	N
Livestock Production	10-12	1	Y
Advanced Animal Science	12	1	Y
Practicum in AFNR (plus optional Extended Practicum)	11-12	2-3	Y
Mathematical Applications in Agriculture, Food, and Natural Resources	9-12	1	N
<b>Ag Mechanics Emphasis</b>			
Principles of Agriculture, Food, and Natural Resources	9-12	1	N
Agricultural Mechanics and Metal Technologies	10-12	1	N
Agricultural Structures Design and Fabrication	10-12	1	Y
Practicum in AFNR (plus optional Extended Practicum)	11-12	2-3	Y
Mathematical Applications in Agriculture, Food, and Natural Resources	9-12	1	N
<b>Courses from other Clusters that may complement this endorsement:</b>			
Introduction to Welding (DC)	11-12	1	Y
Business English (counts as 4th English Credit)	12	1	Y

## **Arts, AV Technology, and Communications Cluster**

<i>Course</i>	<i>Placement</i>	<i>Credit(s)</i>	<i>Advanced?</i>
Principles of Arts, Audio/Video Technology, and Communications	9-10	1	N
Audio/Video Production I (plus optional lab)	10-12	1-2	N
Audio/Video Production II (plus optional lab)	11-12	1-2	Y
Commercial Photography	10-12	1	Y
Graphic Design and Illustration	10-12	1	Y
Practicum in Audio/Video Production (plus optional extended practicum)	11-12	2-3	Y
<b>Courses from other Clusters that may complement this endorsement:</b>			
Digital Media	10-12	1	N
Web Technologies	10-12	1	Y
Business English (counts as 4th English Credit)	12	1	Y

## **Business Management and Administration Cluster**

<i>Course</i>	<i>Placement</i>	<i>Credit(s)</i>	<i>Advanced?</i>
Principles of Business, Finance, and Marketing	9-10	1	N
BIM I	9-12	1	N
BIM II	10-12	1	Y
Business English (counts as 4th English Credit)	12	1	Y
<b>Courses from other Clusters that may complement this endorsement:</b>			
Digital Media	10-12	1	N
Web Technologies	10-12	1	Y

*Business and Industry Endorsement continued*

**Hospitality and Tourism Cluster**

<i>Course</i>	<i>Placement</i>	<i>Credit(s)</i>	<i>Advanced?</i>
Introduction to Culinary Arts	9-12	1	N
Culinary Arts	10-12	1	Y
Practicum in Culinary Arts (plus optional extended practicum)	11-12	2-3	Y
<b>Courses from other Clusters that may complement this endorsement:</b>			
Business English	12	1	Y

**Information Technology Cluster**

<i>Course</i>	<i>Placement</i>	<i>Credit(s)</i>	<i>Advanced?</i>
Digital Media	10-12	1	N
Web Technologies	10-12	1	Y
<b>Courses from other Clusters that may complement this endorsement:</b>			
BIM I	9-12	1	N
BIM II	10-12	1	Y
Any course from the Arts, Audio/Video Technology Cluster			
Business English	12	1	Y

**Manufacturing Cluster**

<i>Course</i>	<i>Placement</i>	<i>Credit(s)</i>	<i>Advanced?</i>
Welding I	10-12	1	N
Welding II	11-12	1	Y
Welding II (Dual Credit)	11-12	1	Y
<b>Courses from other Clusters that may complement this endorsement:</b>			
Business English	12	1	Y

**Marketing Cluster**

<i>Course</i>	<i>Placement</i>	<i>Credit(s)</i>	<i>Advanced?</i>
Principles of Business, Finance, and Marketing	9-10	1	N
Sports and Entertainment Marketing	9-12	.5	N
Social Media Marketing	9-12	.5	N
Entrepreneurship	11-12	1	Y
Practicum in Marketing Dynamics (plus option extended practicum)	11-12	2-3	Y
<b>Courses from other Clusters that may complement this endorsement:</b>			
Business English	12	1	Y

**Transportation, Distribution, and Logistics Cluster**

<i>Course</i>	<i>Placement</i>	<i>Credit(s)</i>	<i>Advanced?</i>
Automotive Basics	9-12	1	N
Automotive Technology I	10-12	2	N
Automotive Technology II	11-12	2	Y
<b>Courses from other Clusters that may complement this endorsement:</b>			
Business English	12	1	Y
Money Matters	9-12	1	N

# PUBLIC SERVICES ENDORSEMENT

*To earn a PUBLIC SERVICES ENDORSEMENT, a student must complete a coherent sequence of courses for FOUR OR MORE CREDITS that consist of at least TWO COURSES IN THE SAME CLUSTER AT LEAST ONE OF WHICH IS ADVANCED.*

## Education and Training Cluster

<i>Course</i>	<i>Placement</i>	<i>Credit(s)</i>	<i>Advanced?</i>
Principles of Education and Training	9-12	1	N
Human Growth and Development	10-12	1	Y
"More courses may be added in future years"			

## Health Science Cluster

<i>Course</i>	<i>Placement</i>	<i>Credit(s)</i>	<i>Advanced?</i>
Principles of Health Science	9-12	1	N
Health Science Theory (with optional additional clinical)	10-12	1-2	N
Practicum in Health Science (with optional extended practicum)	11-12	2-3	Y
Anatomy and Physiology (counts and 3rd or 4th science)	11-12	1	Y

## Human Services Cluster

<i>Course</i>	<i>Placement</i>	<i>Credit(s)</i>	<i>Advanced?</i>
Cosmetology I (Clarendon College)	11-12	2	N
Cosmetology II (Clarendon College)	12	2	Y

## Law, Public Safety, Corrections, and Security Cluster

<i>Course</i>	<i>Placement</i>	<i>Credit(s)</i>	<i>Advanced?</i>
Principles of Law, Public Safety, Corrections, and Security	9-10	1	N
Law Enforcement I	10-12	1	N
Criminal Investigation	10-12	1	Y
Forensic Science	11-12	1	Y

## ARTS AND HUMANITIES ENDORSEMENT

Must include ONE of the following:		
Five Social Studies credits OR		
Four levels of the same language in a language other than English OR		
Two levels of the same language in a language other than English and two levels of a different language other than English OR		
Four levels of American Sign Language OR		
A coherent sequence of four credits by selecting courses from one or two categories or disciplines in Fine Arts OR		
Four English credits beyond English III		

## MULTIDISCIPLINARY STUDIES ENDORSEMENT

Must include ONE of the following:		
Four advanced courses that prepare a student to enter the workforce or post-secondary education without remediation from within one endorsement area or among endorsement areas that are not in a coherent sequence; OR		
Four credits in each of the four foundation subject areas to include English IV and Chemistry and/or physics. OR		
Four credits in AP or dual credit selected from English, mathematics, science, social studies, economics, LOTE, or from the arts.		

## STEM ENDORSEMENT

### SCIENCE, TECHNOLOGY, ENGINEERING, MATH

Must include ONE of the following:		
A coherent sequence of courses for four or more credits of which two or more are from PLTW, OR		
Three additional credits in math by successfully completing Algebra II and two additional mathematics courses for which Algebra II is a prerequisite, OR		
Four credits in science by successfully completing chemistry, physics, and two additional science courses.		



