

Teamwork | Pride | Excellence

Northwest

INDEPENDENT SCHOOL DISTRICT

Endorsement Guide



Science, Technology, Engineering and Mathematics

The STEM endorsement can be earned by completing Algebra II, Chemistry and Physics and one of the following five options:

Option 1:

Complete four or more credits from the following list, one must be an advanced course:

- Principles of Applied Engineering
 - Engineering Design and Presentation I
 - Engineering Design and Problem Solving*
 - Engineering Math
 - Practicum in STEM* (2)
 - PLTW: Introduction to Engineering Design #
 - PLTW: Principles of Engineering#
 - PLTW: Aerospace*#
 - PLTW: Civil Engineering and Architecture*#
 - PLTW: AP Computer Science Principles*#
 - PLTW: Environmental Sustainability*#
 - PLTW: Cybersecurity#
 - PLTW: Digital Electronics*#
 - Scientific Research and Design/Aerospace II*#
 - PLTW: Engineering Design and Development*#
 - Career Preparation I, II – in a related field* (3)
- # Denotes STEM Academy only

Option 3:

Complete two credits from the following list:

- Advanced Quantitative Reasoning
- Pre Calculus
- AP Calculus AB
- AP Calculus BC
- AP Statistics
- AP Computer Science A
- Dual Credit – 3 college credit hours equals ½ high school credit.

Option 2:

Complete two courses from the following list:

- AP Biology
- AP Physics I
- AP Physics C: Mechanics
- AP Physics C: Electricity and Magnetism
- AP Chemistry
- Environmental Systems
- AP Environmental Science
- Anatomy and Physiology*
- Earth and Space Science
- Advanced Animal Science*
- Forensic Science*
- Scientific Research and Design*
- Dual Credit – 3 college credit hours equals ½ high school credit.

Option 4:

Complete four credits in Computer Science from the following list:

- OnRamps Computer Science
- PreAP Computer Science I
- AP Computer Science A
- AP Computer Science Principles
- Mobile Applications
- Independent Study in Technology Applications*

Option 5:

Complete three additional credits in a coherent sequence from no more than two options above.

Note: Detailed courses, endorsements, and information subject to change based on legislative decisions and interpretations.

Courses available to 9th grade students

** Denotes advanced CTE courses.*

All courses are one credit unless otherwise denoted in ().



Arts and Humanities

The Arts and Humanities endorsement can be earned by completing one of the following four options:

Option 1:

Complete five credits from the following list:

- World Geography
- World History
- US History
- Government (.5)
- Economics (.5)
- AP Comparative Government (.5)
- AP European History
- AP Human Geography
- Psychology (.5)
- Sociology (.5)
- AP Psychology (.5)
- Social Studies Advanced Studies (.5)
- Personal Financial Literacy (.5)

Option 3:

Complete four credits in the same language other than English from the following list:

- Spanish
- French
- German

Option 2:

Complete a coherent sequence of four credits from one or two disciplines in the Fine Arts department:

- Art
- Theatre Arts
- Music - Band, Choir, Orchestra
- Dance

Option 4:

Complete two credits from one language other than English and two credits from a different language other than English to total four credits from the following list:

- Spanish
- French
- German
- American Sign Language
- Computer Science*

If a student is transferring from a different district, other languages will be considered.
*may not be accepted at every college as fulfilling WL requirement

Multidisciplinary Studies

The Multidisciplinary endorsement can be earned by completing one of the following three options:

Option 1:

Complete four credits from each of the following departments:

- English
- Mathematics
- Science
- Social Studies

Must include English IV, and Physics and/or Chemistry.

Option 2:

Complete four advanced placement or dual credit credits from the following departments:

- English
- Mathematics
- Science
- Social Studies
- Languages other than English
- Fine Arts

Option 3:

Complete four advanced courses from within one endorsement or among multiple endorsements. (* Denotes advanced applicable courses.)

Business and Industry

The Business and Industry endorsement can be earned by completing a coherent sequence of four or more credits

Option 1:

Agricultural, Food, and Natural Resources; Manufacturing:

- **Principles of Agriculture Food & Natural Resources**
- Agricultural Mechanics & Metal Technologies
- Agricultural Structures Design & Fabrication*
- Welding I (2)
- Horticultural Science
- Livestock Production
- Advanced Animal Science*
- Wildlife, Fisheries & Eco.
- Floral Design I, II
- Landscape Design & Management*(.5)
- Agribusiness Management & Marketing*
- Small Animal Management (.5)
- Veterinary Medical Applications*
- Practicum in Agriculture* (2)

Architecture and Construction:

- **Principles of Architecture**
- Architectural Design I
- Architectural Design II* (2)
- Practicum in Architectural Design* (2)
- Interior Design I
- Interior Design II* (2)
- Practicum in Interior Design* (2)

Arts, Audio/Video Technology and Communications: (Creative Media Production Academy only unless otherwise designated as all campuses)

- **Principles of Arts, AV & Communications** (All)
- **AV Production I** (All)
- **AV Production I with Lab** (All)
- AV Production II
- AV Production II with Lab* (2)
- Practicum in AV* (2)
- **Graphic Design & Illustration I** (All) with Lab* (2)
- **Graphic Design & Illustration II**
- **Graphic Design & Illustration II with Lab*** (2)
- Practicum in Graphic Design* (2)
- **Commercial Photography I***
- **Commercial Photography II**
- **Commercial Photography II**
- **Digital Audio Technology I**
- **Printing and Imaging Technology I-IV**
- **Professional Communications** (.5) (All)

Business Management and Administration, Finance, and Marketing:

- **Principles of Business, Marketing, & Finance**
- **Business Information Management I***, II*
- Business Management*
- Global Business* (.5)
- Virtual Business* (.5)
- Business Law*
- Practicum in Business Management* (2)
- **Securities and Investments**
- **Marketing**
- Advertising (.5)
- Social Media Marketing (.5)
- Sports & Entertainment Marketing (.5)
- Entrepreneurship (BME only)

Information Technology:

- **Principles of Information Technology**
- Computer Maintenance
- Networking
- Computer Programming I
- Practicum in Information Technology* (2)

Transportation, Distribution, and Logistics: (Aviation and Aeronautics Academy only)

- **Intro to Aircraft Technology**
- Foundations of Aviation
- Aircraft Airframe Technology* (2)
- Aircraft Powerplant Technology* (2)
- Principles of Transportation Systems
- Energy and Power of Transportation Systems
- Practicum in Transportation Systems* (2)

Hospitality and Tourism: (Culinary Arts and Hospitality Academy only)

- **Principles of Hospitality & Tourism**
- Intro to Culinary Arts
- Culinary Arts* (2)
- Practicum/Extended Practicum in Culinary* (3)

Career Preparation:

- Career Preparation I – in related field* (3)
- Career Preparation II – in related field* (3)

Option 2:

The Business and Industry endorsement can be earned by completing a coherent sequence of four English elective credits listed below.

- **Creative & Imaginative Writing**
- **Literacy Genres - Mythology**
- **Communications Applications** (.5)
- **Public Speaking** (.5)
- **Journalism**
- Photojournalism
- **Reading I**
- Practical Writing
- **Oral Interpretation I**, II, III
- **Debate I**, II, III
- Independent Study in Speech (Debate IV or Oral Interpretation IV)
- Advanced Journalism: Newspaper Production I, II, III
- Independent Study in Journalism (Newspaper IV)



Public Service

The Public Service endorsement can be earned by completing a coherent sequence of four or more credits. Two of the courses must be in the same career cluster, at least one course should be an advanced course, and additional course(s) to create a four credit coherent sequence.

Education and Training:

- **Principles of Education & Training**
- Instructional Practices* (2)
- Practicum In Education & Training* (2)

Health Science:

- **Principles of Health Science**
- **Medical Terminology***
- Health Science Theory
- Health Science Theory/Health Science Clinical (2)
- Anatomy and Physiology*
- Practicum in Health Science: Certified Medical Assistant* (2)
- Practicum in Health Science: EMT* (2)
- **PLTW: Principles of Biomedical Science*** (BSA only)
- PLTW: Human Body Systems* (BSA only)
- PLTW: Medical Interventions* (BSA only)
- PLTW: Biomedical Innovations* (BSA only)

Human Services:

- **Principles of Human Services**
- Child Development
- Family and Community Services
- Counseling and Mental Health*
- Child Guidance* (2)
- Practicum in Human Services* (2)
- **Introduction to Cosmetology** (Cosmetology only)
- Principles of Cosmetology Design and Color Theory (Cosmetology only)
- Cosmetology I* (Cosmetology only) (2)
- Cosmetology II* (Cosmetology only) (2)

Law, Public Safety, Corrections, and Security:

- Forensic Science*

Career Preparation:

- Career Preparation I – in related field* (3)
- Career Preparation II – in related field* (3)

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Northwest ISD

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