



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
- Practicum in STEM (2)
- PLTW: Introduction to Engineering Design (STEM AC only)
- Principles of Engineering (STEM AC only)
- PLTW: Aerospace* (STEM AC only)
- PLTW: Civil Engineering and Architecture* (STEM AC only)
- PLTW: Engineering Design and Development* (STEM AC only)
- Scientific Research and Design: Aerospace (STEM AC only)*
- Career Preparation I, II – in a related field* (3)

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 3:

Complete two credits from the following list:

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

Option 4:

Complete four credits in Computer Science from the following list:

- PreAP Computer Science
- Computer Science II
- AP Computer Science
- Mobile Application
- Independent Study in Technology Applications*

Option 5:

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

Courses available to 9th grade students

* Denotes advanced CTE courses.

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

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

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

If a student is transferring from a different district, other languages will be considered.

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:

- **Principles of Agriculture Food & Natural Resources**
- Horticultural Science
- Floral Design
- Landscape Design & Management* (.5)
- Wildlife, Fisheries & Eco.
- Small Animal Management (.5)
- Livestock Production
- Veterinary Medical Applications*
- Advanced Animal Science*
- Agricultural Mechanics & Metal Technologies
- Agricultural Structures Design & Fabrication*
- Agribusiness Management & Marketing*
- 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: (Academy of Media Arts and Technology only unless otherwise designated)

- **Audio/Video Production I** Audio/Video Production II with Lab* (2)
- Practicum in Audio/Video* (2)
- **Graphic Design & Illustration I**
- Graphic Design & Illustration II with Lab* (2)
- Practicum in Graphic Design* (2)
- **Commercial Photography I*** Commercial Photography II with Lab* (2)
- **Animation I*** Animation II with Lab* (2)
- Practicum in Animation* (2)
- **Digital Audio Technology I** Principles of Arts, AV & Communications (BNHS/EHS Video Announcement)
- **Professional Communications (.5)** (All campuses)
- Video Game Design* (NHS non-academy only)

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)
- **Finance**
 - Banking & Financial Services (.5)
 - Accounting I, II*
 - Financial Mathematics
- **Marketing**
 - Advertising (.5)
 - **Fashion Marketing (.5)**
 - Social Media Marketing (.5)
 - Sports & Entertainment Marketing (.5)
 - Entrepreneurship (BME only)

Information Technology, Technology Application, and Business Information Management:

- **Digital Media**
- Computer Programming I
- **Principles of Information Technology**
- Web Technologies*
- Digital Arts and Animation
- **Business Information Management I***, II*

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

- **Principles of Hospitality & Tourism**
- Intro to Culinary Arts
- Culinary Arts* (2)
- Practicum in Culinary* (3)
- Hospitality Services* (2)
- Practicum in Hospitality* (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
- Advanced Journalism: Yearbook Production I, II, III
- Independent Study in Journalism (Newspaper IV or Yearbook 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)
- Project-Based Research (Neuron Tracing) (BNHS only)
- **PLTW: Principles of Biomedical Science*** (ABS only)
- PLTW: Human Body Systems* (ABS only)
- PLTW: Medical Interventions* (ABS only)
- PLTW: Biomedical Innovations* (ABS only)

Human Services:

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

PO Box 77070 • Fort Worth • TX 76177

817.215.0000 • 817.215.0170 Fax

www.nisdtx.org