

SCIENCE, TECHNOLOGY, ENGINEERING & MATHEMATICS (STEM) ENDORSEMENT

A STEM endorsement can be earned by completing the foundation program general endorsement requirements including algebra II, chemistry, and physics and either A, B, C, D, or E:

A) A coherent sequence of courses of four or more *credits in CTE; the final course in the sequence must be from the STEM career cluster

B) A coherent sequence of four *credits in computer science

C) A total of five *credits in mathematics by successfully completing Algebra I, Geometry, Algebra II and two additional mathematics courses for which Algebra II is the prerequisite

D) A total of five *credits in science by successfully completing biology, chemistry, physics, and two additional science courses

E) A coherent sequence of three additional *credits from no more than two areas listed in A, B, C, or D

CTE Courses – STEM Career Cluster

- Introduction to Engineering Design
- Principles of Engineering
- Aerospace Engineering
- Civil Engineering & Architecture
- Digital Electronics
- Computer Integrated Manufacturing
- Engineering Design & Problem Solving
- Engineering Math
- Practicum in STEM (3)
- Career Preparation (3)

Computer Science Courses

- Fundamentals of Computer Science
- Computer Science I
- AP Computer Science
- Computer Science II
- Computer Science III

Mathematics Courses

- Pre-Calculus
- AP Calculus AB
- AP Calculus BC
- AP Statistics
- Engineering Mathematics
- Independent Study in Mathematics
- Statistics and Risk Management
- AP Computer Science
- Dual Credit Mathematics
- Advanced Quantitative Reasoning

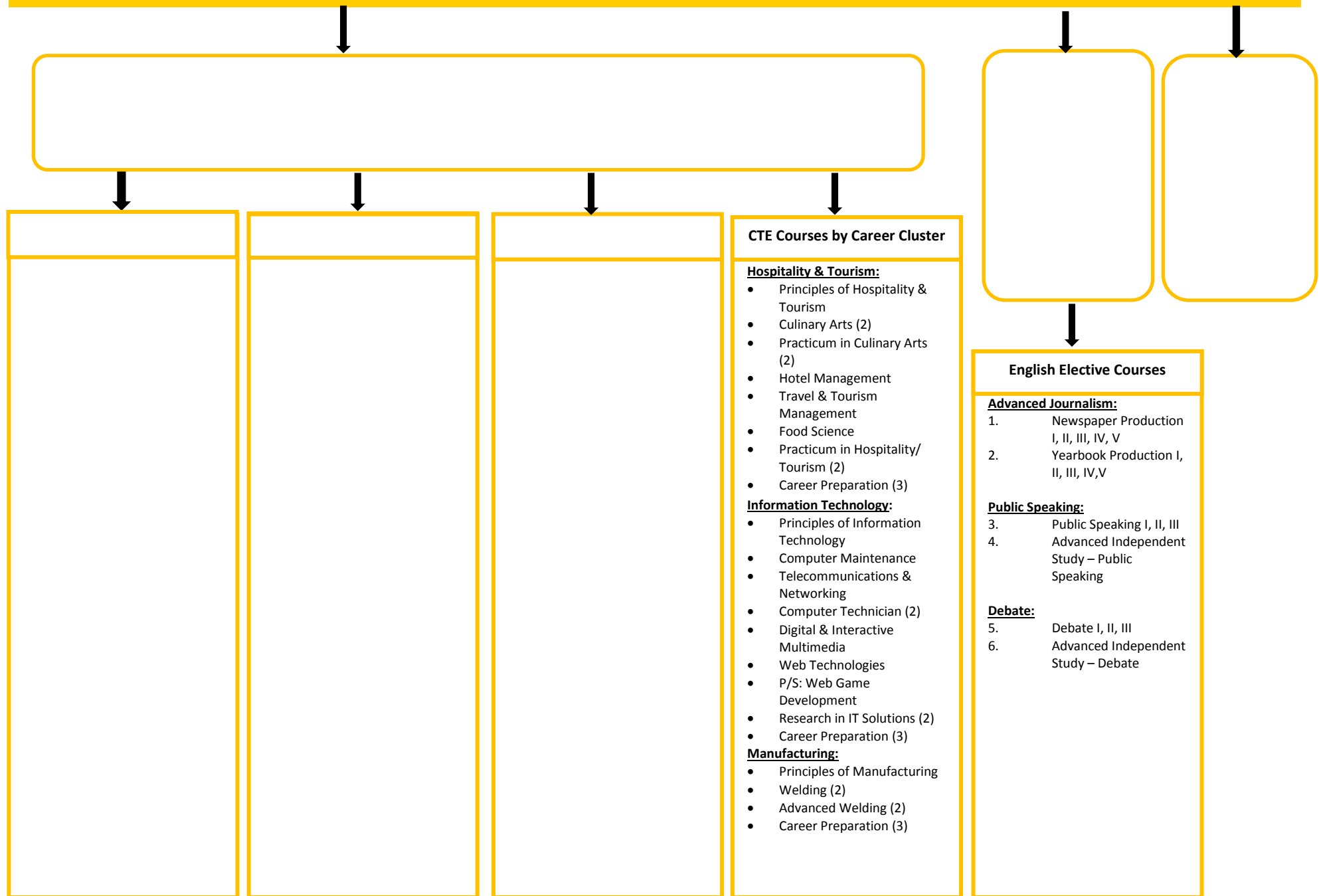
Science Courses

- AP Biology
- AP Chemistry
- AP Physics I
- AP Physics II
- AP Physics C
- AP Environmental Science
- Aquatic Science
- Astronomy
- Earth & Space Science
- Anatomy & Physiology
- Environmental Systems
- Adv. Animal Science
- Adv. Plant & Soil Science
- Forensic Science
- Medical Microbiology (.5)
- Pathophysiology (.5)
- Principles of Technology
- Engineering Design & Problem Solving
- Principles of Engineering
- Food Science

*Most courses are worth 1 credit. If a course is worth more or less than 1 credit, the numbers of credits is written in parentheses to the right of the course. The courses on this document are the courses currently available in Alief ISD. Course availability varies by campus. (Last revision -03/17/2014)

BUSINESS & INDUSTRY ENDORSEMENT

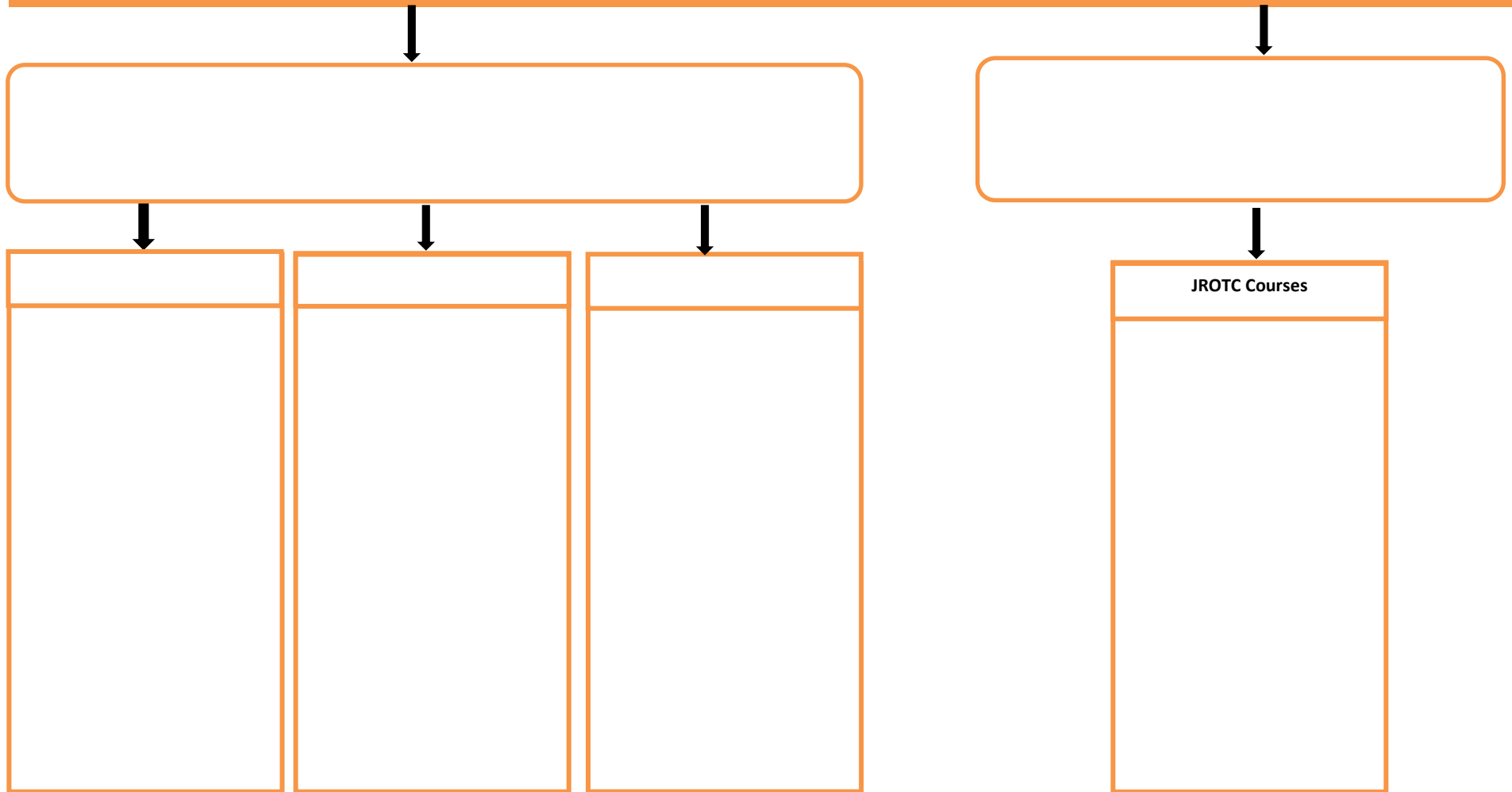
A Business & Industry endorsement can be earned by completing the foundation program general endorsement requirements and either A, B, C, or D:



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PUBLIC SERVICES ENDORSEMENT

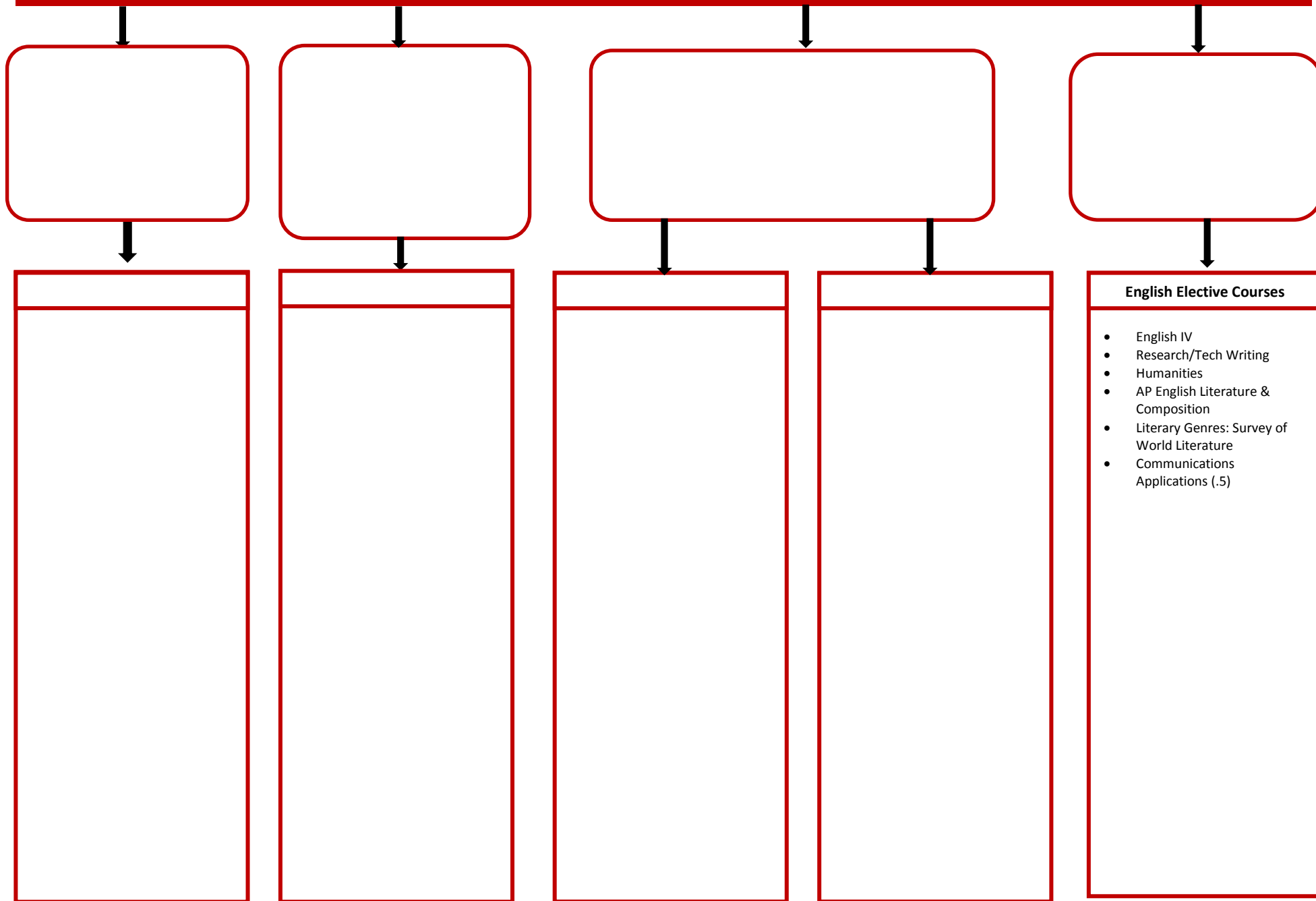
A Public Services endorsement can be earned by completing the foundation program general endorsement requirements and either A or B:



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ARTS & HUMANITIES

An Arts & Humanities endorsement can be earned by completing the foundation program general endorsement requirements and either A, B, C, D, E or F:



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MULTIDISCIPLINARY STUDIES ENDORSEMENT

A Multidisciplinary Studies endorsement can be earned by completing the foundation program general endorsement requirements and either A, B or C:

A) Four advanced courses that prepare a student to enter the workforce successfully or postsecondary education without remediation from within one or more endorsement areas that are not in a coherent sequence

B) Four *credits in each of the four foundation subject areas to include English IV and Chemistry and/or Physics

C) Four *credits in advanced placement, International Baccalaureate, or dual credit selected from English, mathematics, science, social studies, economics, languages other than English, or fine arts