

CTE Course Sequences and Prerequisites*



*Beginning with the 2017-18 School Year

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Business & Industry Endorsement

AGRICULTURE, FOOD, & NATURAL RESOURCES (AFNR)

Principles of Agriculture, Food & Natural Resources (1)

Professional Standards in Agribusiness (.5)

Small Animal Management (.5)

Equine Science (.5)

Turf Grass Management (.5)

Landscape Design & Management (.5)

Horticultural Science (1)

Advanced Plant & Soil Science (1) **

Wildlife Fisheries & Ecology Management (1)

Greenhouse Operation & Production (1)

Range Ecology & Management Forestry & Woodland Ecosystems (1)

Floral Design (1) *

Food Technology & Safety (1)

Food Processing (1)

Veterinary Medical Applications (1)

Livestock Production (1)

Advanced Animal Science (1) **

Oil & Gas Production I (1)

Oil & Gas Production II (1)

Energy & Natural Resources Technology (1)

Advanced Energy & Natural Resource Technology (1)

Agribusiness Management & Marketing (1)

Agricultural Mechanics & Metal Technologies (1)

Agricultural Power Systems (2)

Agricultural Equipment Design & Fabrication (1)

Mathematical Applications in AFNR (1) ***

Ag Lab & Field Experience (1)

(required co-requisite: Any course in AFNR Career Cluster except Principles of AFNR)

Practicum in AFNR (2)

Extended Practicum in AFNR (1)

(must be taken concurrently with Practicum in AFNR)

*Course counts as Fine Art Core Credit

**Course counts as Science Core Credit

***Course counts as Math Core Credit

PREREQUISITES/COREQUISITES

Veterinary Medical Applications

1 Prerequisite - Equine Science, Small Animal Management, OR Livestock Production

Advanced Animal Science

2 Prerequisites (Science) – Biology & Chemistry or IPC

2 Prerequisites (Math) – Algebra I & Geometry

1 Prerequisite (Ag) – Small Animal Management, Equine Science, OR Livestock Production

Mathematical Applications in AFNR

1 Prerequisite – Algebra I

Oil & Gas Production II

1 Prerequisite – Oil & Gas Production I

Ag Laboratory & Field Experience

1 Corequisite – Any AFNR course excluding Principles of AFNR

Practicum in AFNR – Can be repeated once for credit if different skills are taught

Business & Industry Endorsement

ARCHITECTURE & CONSTRUCTION

Principles of Architecture (1)

Masonry Technology I (2)	Masonry Technology II (2)	Practicum in Masonry Technology (2)	Extended Practicum in Masonry Tech (1) (must be taken concurrently with related course)
Building Maintenance Technology I (2)	Building Maintenance Technology II (2)		
Architectural Design I (1)	Architectural Design II (2)	Practicum in Architectural Design (2)	Extended Practicum in Arch. Design (1) (must be taken concurrently with related course)
Interior Design I (1)	Interior Design II (2)	Practicum in Interior Design (2)	Extended Practicum in Interior Design (1)

Principles of Construction (1)

HVAC & Refrigeration Technology I (1)	HVAC & Refrigeration Technology II (2)		
Plumbing Technology I (1)	Plumbing Technology II (2)		
Electrical Technology I (1)	Electrical Technology II (2)		
Mill & Cabinetmaking Technology (2)			
Construction Technology I (2)	Construction Technology II (2)	Practicum in Construction Technology (2)	Extended Practicum in Construction Tech (1) (must be taken concurrently with related course)
Construction Management I (2)	Construction Management II (2)	Practicum in Construction Mgmt. (2)	Extended Practicum in Construction Mgmt. (1) (must be taken concurrently with related course)

PREREQUISITES/COREQUISITES

Interior Design I – 2 Prerequisites – Algebra I and English I

Interior Design II – 3 Prerequisites – English II, Geometry, AND Interior Design I

Practicum in Interior Design – 1 Prerequisite – Interior Design II; Can be repeated once for credit if different skills are taught

Architectural Design I – 2 Prerequisites – Algebra I & English I

Architectural Design II – 2 Prerequisites – Geometry, Architectural Design I OR Interior Design II

Practicum in Architectural Design – 1 Prerequisites – Architectural Design II; Can be repeated once for credit if different skills are taught

Construction Management II – 1 Prerequisite – Construction Management I

Practicum in Construction Management – 1 Prerequisite – Construction Management II; Can be repeated once for credit if different skills are taught

Construction Technology II – 1 Prerequisite – Construction Technology I

Practicum in Construction Technology – 1 Prerequisite – Construction Technology II; Can be repeated once for credit if different skills are taught

Building Maintenance & Technology II – 1 Prerequisite – Building & Maintenance Technology I

Electrical Technology II – 1 Prerequisite – Electrical Technology I

HVAC & Refrigeration Technology II – 1 Prerequisite – HVAC & Refrigeration Technology I

Plumbing Technology II – 1 Prerequisite – Plumbing Technology I

Masonry Technology II – 1 Prerequisite – Masonry Technology I

Practicum in Masonry Technology – Masonry Technology II; Can be repeated once for credit if different skills are taught

Business & Industry Endorsement

ARTS, A/V TECHNOLOGY, & COMMUNICATIONS

Principles of Arts, A/V Technology & Communications (1)

Professional Communications (.5)					
Fashion Design I (1)	Lab (1) (must be taken concurrently with related course)	Fashion Design II (1)	Lab (1) (must be taken concurrently with related course)	Practicum in Fashion Design (2)	Ext. Practicum (1) (must be taken concurrently with related course)
Commercial Photography I (1)	Lab (1) (must be taken concurrently with related course)	Commercial Photography II (1)	Lab (1) (must be taken concurrently with related course)	Practicum in Commercial Photography (2)	Ext. Practicum (1) (must be taken concurrently with related course)
Printing & Imaging Technology I (1)	Lab (1) (must be taken concurrently with related course)	Printing & Imaging Technology II (1)	Lab (1) (must be taken concurrently with related course)	Practicum in Printing & Imaging Technology (2)	Ext. Practicum (1) (must be taken concurrently with related course)
Graphic Design & Illustration I (1)	Lab (1) (must be taken concurrently with related course)	Graphic Design & Illustration II (1)	Lab (1) (must be taken concurrently with related course)	Practicum in Graphic Design & Illustration (2)	Ext. Practicum (1) (must be taken concurrently with related course)
Video Game Design (1)					
Animation I (1)	Lab (1) (must be taken concurrently with related course)	Animation II (1)	Lab (1) (must be taken concurrently with related course)	Practicum in Animation (2)	Ext. Practicum (1) (must be taken concurrently with related course)
Audio Video Production I (1)	Lab (1) (must be taken concurrently with related course)	Audio Video Production II (1)	Lab (1) (must be taken concurrently with related course)	Practicum in Audio Video Production (2)	Ext. Practicum (1) (must be taken concurrently with related course)
Digital Audio Technology I (1)		Digital Audio Technology II (1)			

PREREQUISITES/COREQUISITES

A/V Production I Lab – 1 Corequisite – A/V Production 1

A/V Production II - 1 Prerequisite – A/V Production I

A/V Production II Lab – 1 Prerequisite – A/V Production I; 1 Corequisite – A/V Production II

Practicum in A/V Production – 2 Prerequisites – A/V Production II & Lab II; Can be repeated once for credit if different skills are taught

Digital Audio Technology II – 1 Prerequisite – Digital Audio Technology I

Animation I Lab – 1 Corequisite – Animation I

Animation II – 1 Prerequisite – Animation I

Animation II Lab – 1 Prerequisite – Animation 1; 1 Corequisite – Animation II

Practicum in Animation – 2 Prerequisites – Animation II and Lab II; Can be repeated once for credit if different skills are taught

Graphic Design & Illustration I Lab – 1 Corequisite – Graphic Design & Illustration I

Graphic Design & Illustration II – 1 Prerequisite – Graphic Design & Illustration I

Graphic Design & Illustration II Lab – 1 Prerequisite – Graphic Design & Illus. I; 1 Corequisite – Graphic Design & Illustration II

Practicum in Graphic Design – 1 Prerequisite – Graphic Design & Illustration II; Can be repeated once for credit if different skills are taught

Fashion Design I Lab – 1 Corequisite – Fashion Design I

Fashion Design II – 1 Prerequisite – Fashion Design I

Fashion Design II Lab – 1 Prerequisite – Fashion Design 1; 1 Corequisite – Fashion Design II

Practicum in Fashion Design – 2 Prerequisites – Fashion Design II & Lab II; Can be repeated once for credit if different skills are taught

Commercial Photography I Lab – 1 Corequisite – Commercial Photography I

Commercial Photography II Lab – 1 Corequisite – Commercial Photography II

Practicum in Commercial Photography – 2 Prerequisites – Commercial Photography I & Lab I along with teacher recommendation; Can be repeated once for credit if different skills are taught

Printing & Imaging Technology I Lab – 1 Corequisite – Printing & Imaging Technology I

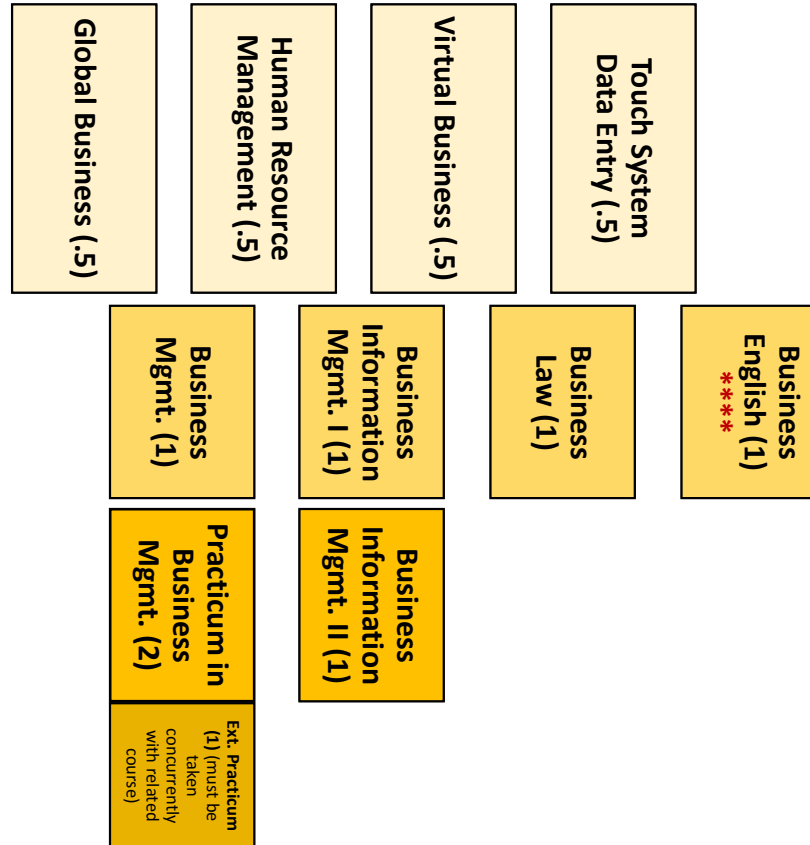
Printing & Imaging Technology II Lab – 1 Corequisite – Printing & Imaging Technology II

Practicum in Printing & Imaging Technology – 2 Prerequisites – Printing & Imaging II & Lab II; Can be repeated once for credit if different skills are taught

Business & Industry Endorsement

BUSINESS MANAGEMENT & ADMINISTRATION

Principles of Business, Marketing, & Finance (1)



Business Lab (1)
(required co-requisite: Any course in this Career Cluster)

***Course counts as English Language Arts Core Credit

PREREQUISITES/COREQUISITES

Business Information Management II

1 Prerequisite – Business Information Management I

Business Lab

Not a stand alone. Must be paired with a course in Business Cluster

Business English

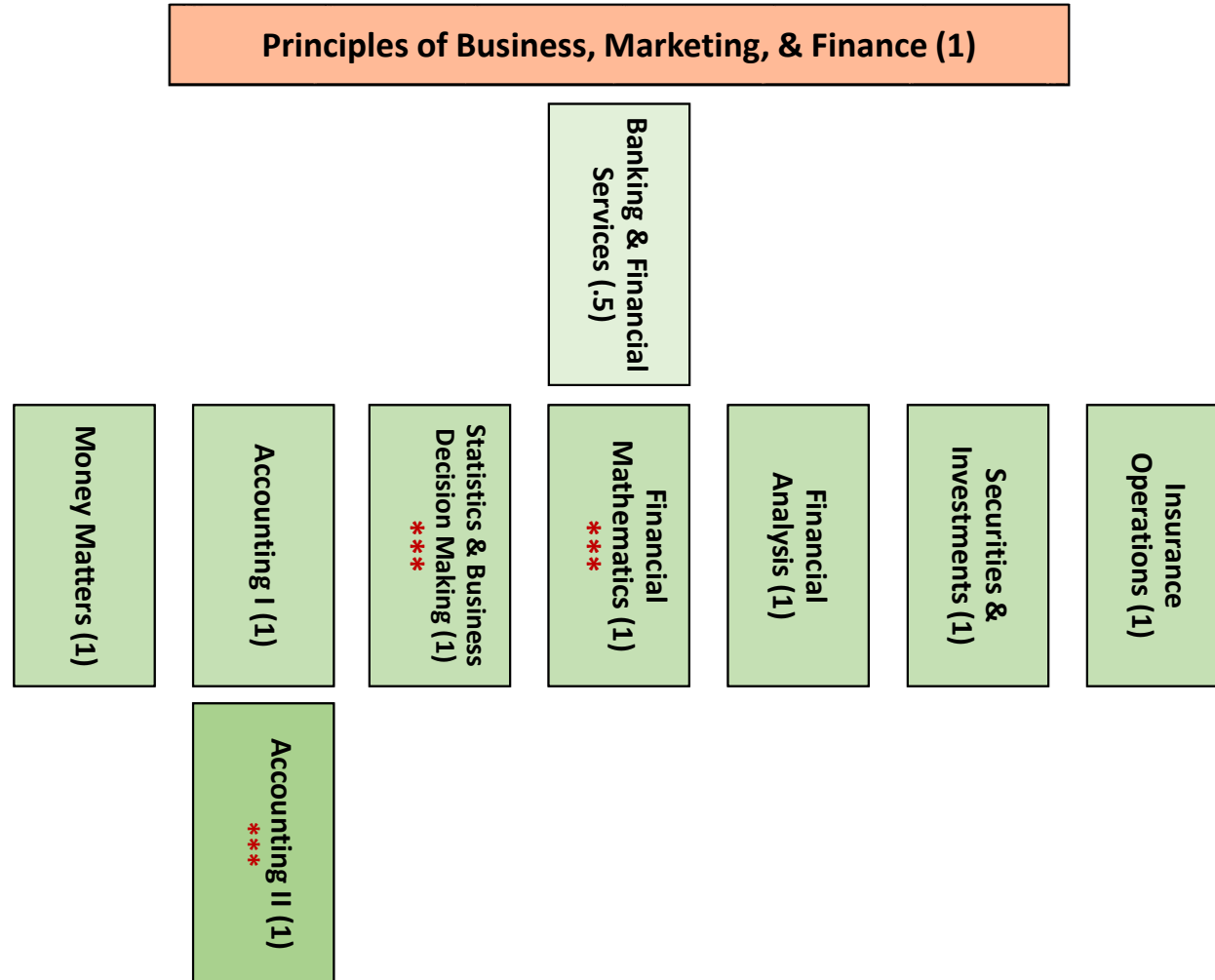
1 Prerequisite – English III

Practicum in Business

Can be repeated once for credit if different skills are taught

Business & Industry Endorsement

FINANCE



***Course counts as Math Core Credit

PREREQUISITES/COREQUISITES

Accounting II

1 Prerequisite – Accounting I

Financial Analysis

1 Prerequisite – Accounting I

Statistics & Business Decision Making

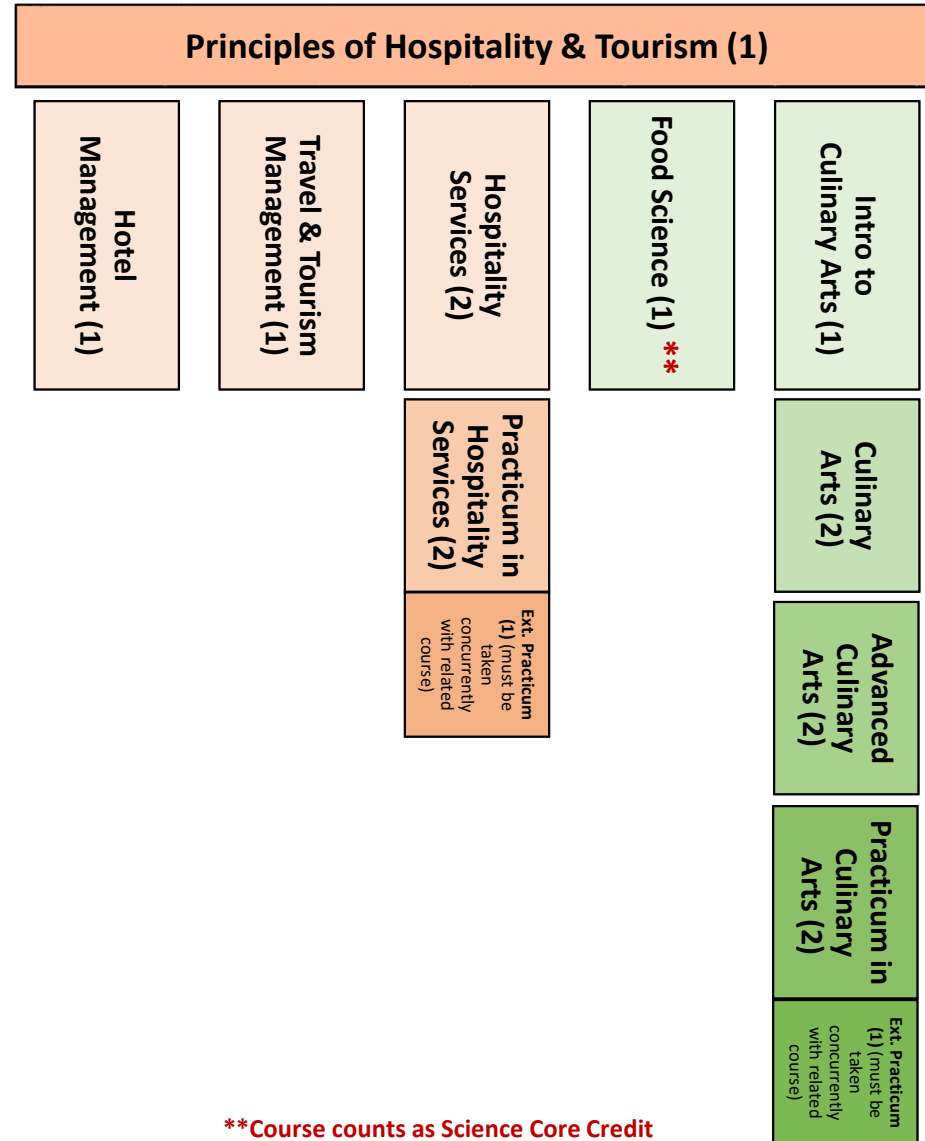
1 Prerequisite – Algebra II

Financial Mathematics

1 Prerequisite – Algebra I

Business & Industry Endorsement

HOSPITALITY & TOURISM



PREREQUISITES/COREQUISITES

Advanced Culinary Arts

1 Prerequisite – Culinary Arts

Practicum in Culinary Arts

1 Prerequisite – Culinary Arts; Can be repeated once for credit if different skills are taught

Practicum in Hospitality Services

Can be repeated once for credit if different skills are taught

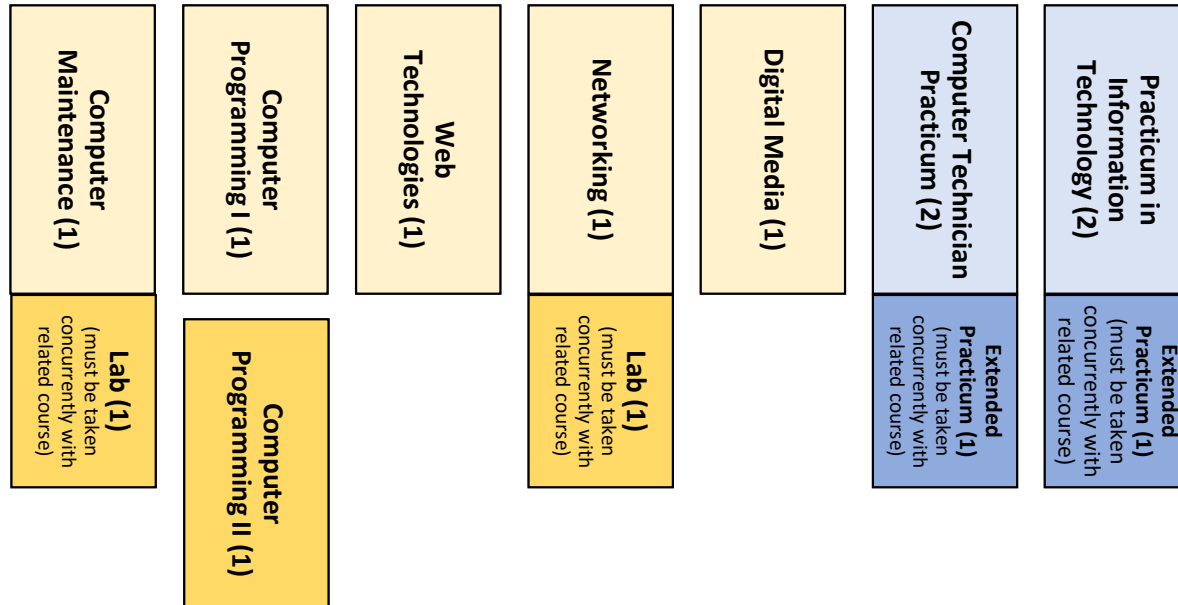
Food Science

3 Prerequisites – 3 Units of Science including Biology and Chemistry

Business & Industry Endorsement

INFORMATION TECHNOLOGY

Principles of Information Technology (1)



PREREQUISITES/COREQUISITES

Computer Maintenance Lab

1 Corequisite – Computer Maintenance

Networking Lab

1 Corequisite - Networking

Computer Technician Practicum

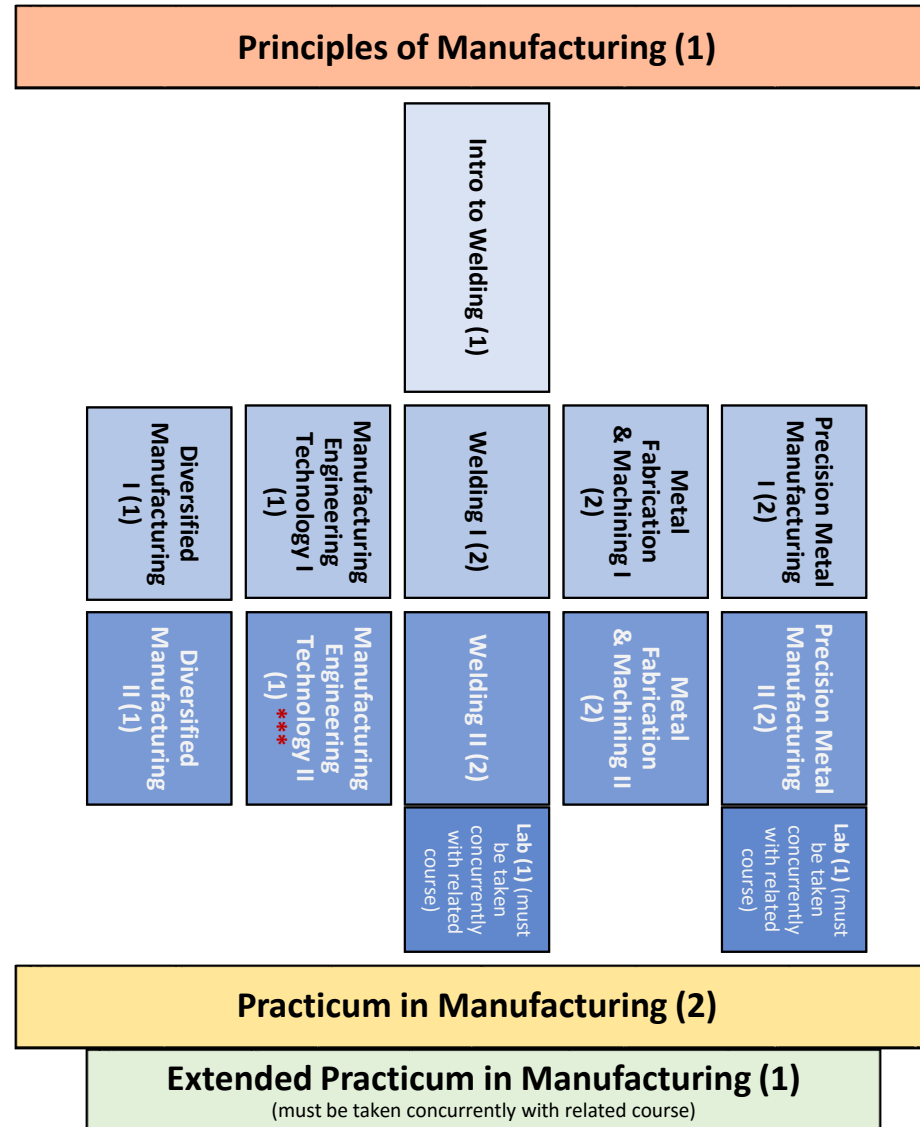
Can be repeated once for credit if different skills are taught

Practicum in Information Technology

2 Prerequisites – minimum of 2 High School IT courses; Can be repeated once for credit if different skills are taught

Business & Industry Endorsement

MANUFACTURING



***Course counts as Math Core Credit

PREREQUISITES/COREQUISITES

Diversified Manufacturing II – 1 Prerequisite – Diversified Manufacturing I

Manufacturing Engineering Technology II – 1 Prerequisite – Manufacturing Engineering Tech I

Welding II – 1 Prerequisite – Welding I

Welding II Lab – 1 Prerequisite – Welding I; 1 Corequisite – Welding II

Precision Metal Manufacturing II – 1 Prerequisite – Precision Metal Manufacturing I

Precision Metal Mfg. II Lab – 1 Prerequisite – Precision Metal Mfg. I; 1 Corequisite – Precision Metal Mfg. II

Metal Fabrication & Machining II – 1 Prerequisite – Metal Fabrication & Machining I

Practicum in Manufacturing – Can be repeated once for credit if different skills are taught

Business & Industry Endorsement

MARKETING, SALES, & SERVICE

Principles of Business, Marketing, & Finance (1)

Social Media
Marketing (.5)

Fashion Marketing
(.5)

Advanced
Marketing (2)

Advertising (.5)

Entrepreneurship
(1)

Practicum in
Marketing (2)

Extended
Practicum (1)
(must be taken
concurrently
with related
course)

Sports &
Entertainment
Marketing (.5)

PREREQUISITES/COREQUISITES

Advanced Marketing

Two credits from the courses in the Marketing Cluster

Practicum in Marketing

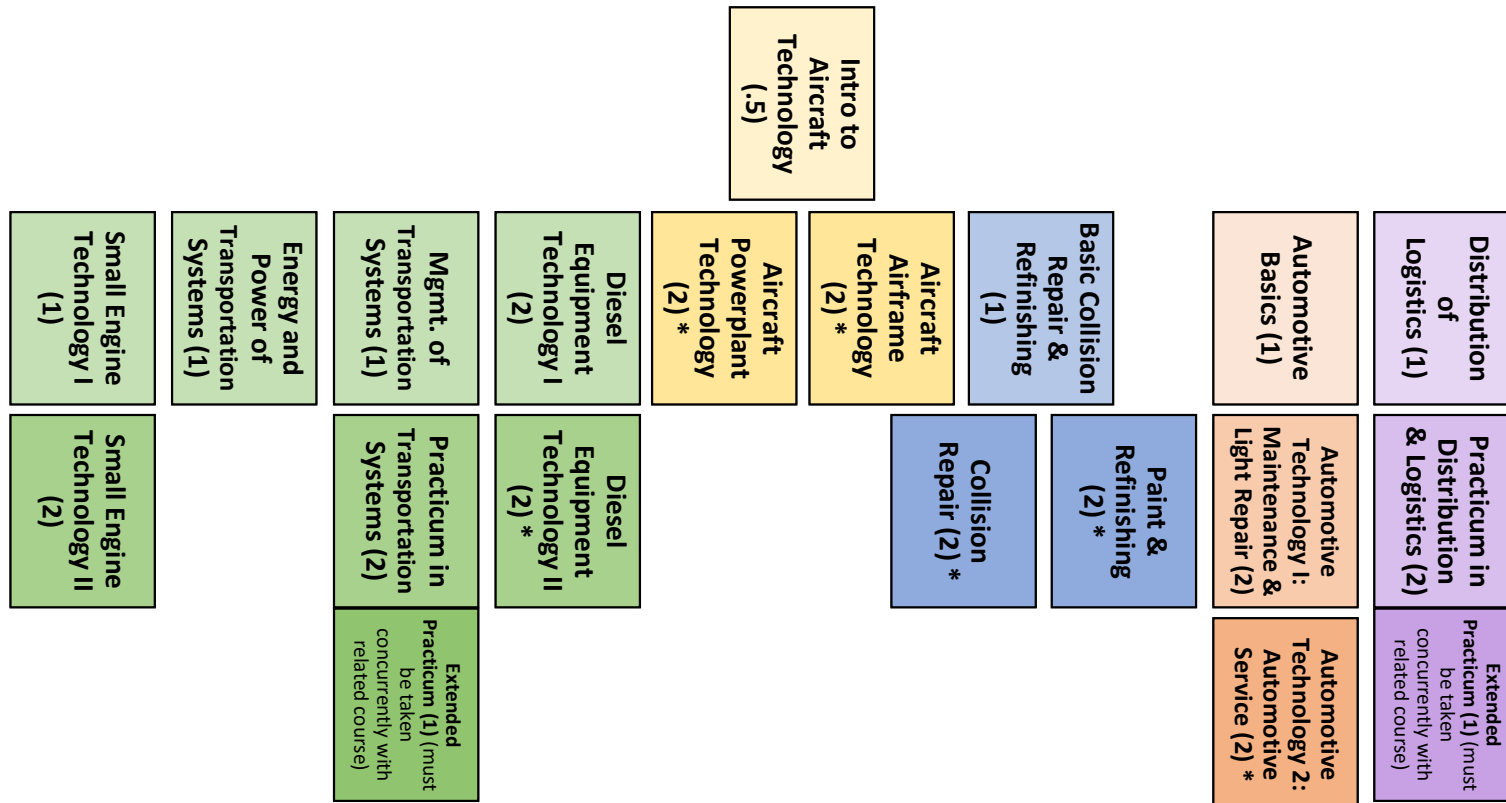
Can be repeated once for credit if different skills are taught

Business & Industry Endorsement

TRANSPORTATION, DISTRIBUTION, & LOGISTICS

Principles of Transportation Systems (1)

Principles of Distribution & Logistics (1)



Advanced Transportation System Lab (1)
(must be taken concurrently with a corequisite course*)

PREREQUISITES/COREQUISITES

Aircraft Airframe Technology – 1 Prerequisite – Intro to Aircraft Technology

Aircraft Powerplant Technology – 1 Prerequisite – Intro to Aircraft Technology

Automotive Tech II: Automobile Service – 1 Prerequisite – Auto Tech I: Maintenance & Light Repair

Advanced Transportation Laboratory – 1 Corequisite – Auto Tech II: Auto Services, Diesel Equipment Tech II;
Collision Repair; Paint & Refinishing; Aircraft Airframe Tech, OR Airplane Powerplant Tech

Diesel Equipment Technology II – 1 Prerequisite – Diesel Equipment Technology I

Small Engine Technology II – 1 Prerequisite – Small Engine Technology I

Practicum in Transportation Systems – Can be repeated once for credit if different skills are taught

Practicum in Distribution & Logistics - Can be repeated once for credit if different skills are taught

Public Services Endorsement

EDUCATION & TRAINING

Principles of Education & Training (1)

Human Growth & Development (1)

Practicum in Education & Training (2)

Instructional Practices (2)

Extended Practicum in Education & Training (1) (must be taken concurrently with related course)

PREREQUISITES/COREQUISITES

Practicum in Education & Training

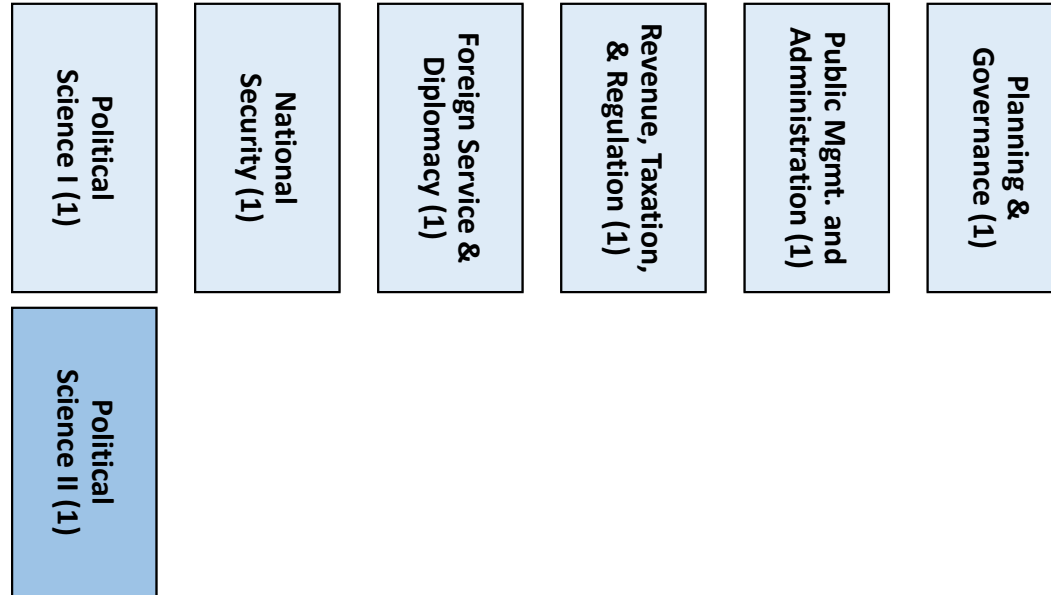
1 Prerequisite – Instructional Practices

Can be repeated once for credit if different skills are taught

Public Services Endorsement

GOVERNMENT & PUBLIC ADMINISTRATION

Principles of Government & Public Administration (1)



Practicum in Local, State, & Federal Government (2)

Extended Practicum in Local, State, & Federal Government (1)
(must be taken concurrently with related course)

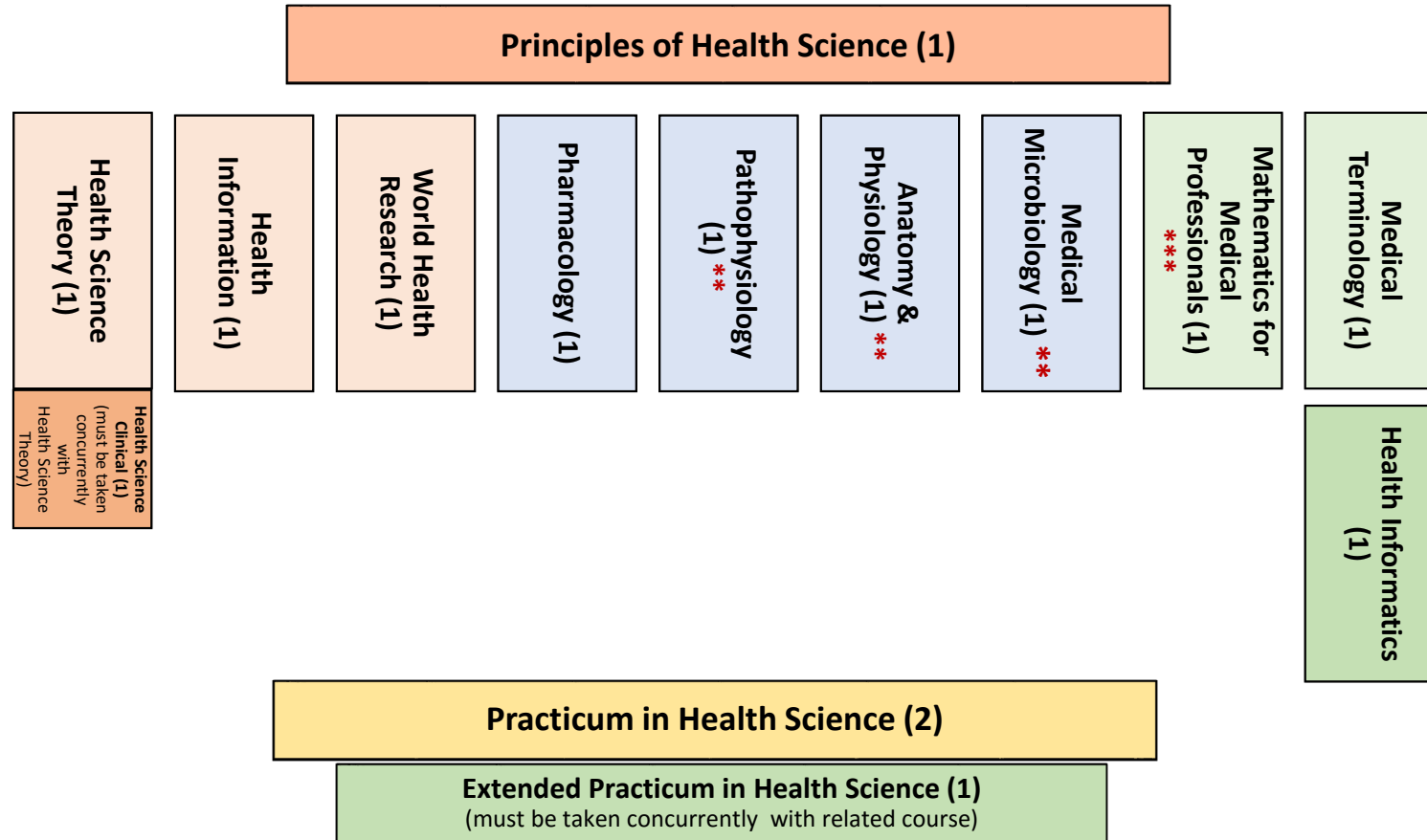
PREREQUISITES/COREQUISITES

Practicum in Local, State & Federal Government

Can be repeated once for credit if different skills are taught

Public Services Endorsement

HEALTH SCIENCE



**Course counts as Science Core Credit

***Course counts as Math Core Credit

PREREQUISITES/COREQUISITES

Health Science Theory 1 Prerequisite – Biology

Health Science Clinical – Prerequisite – Biology; 1 Corequisite – Health Science Theory

Anatomy & Physiology – 2 Prerequisites – Biology and 2nd Science Credit

Math for Medical Professionals – 2 Prerequisites – Geometry and Algebra II

Medical Microbiology – 2 Prerequisites – Biology and Chemistry

Pathophysiology – 2 Prerequisites – Biology and Chemistry

World Health Research – 2 Prerequisites – Biology and Chemistry

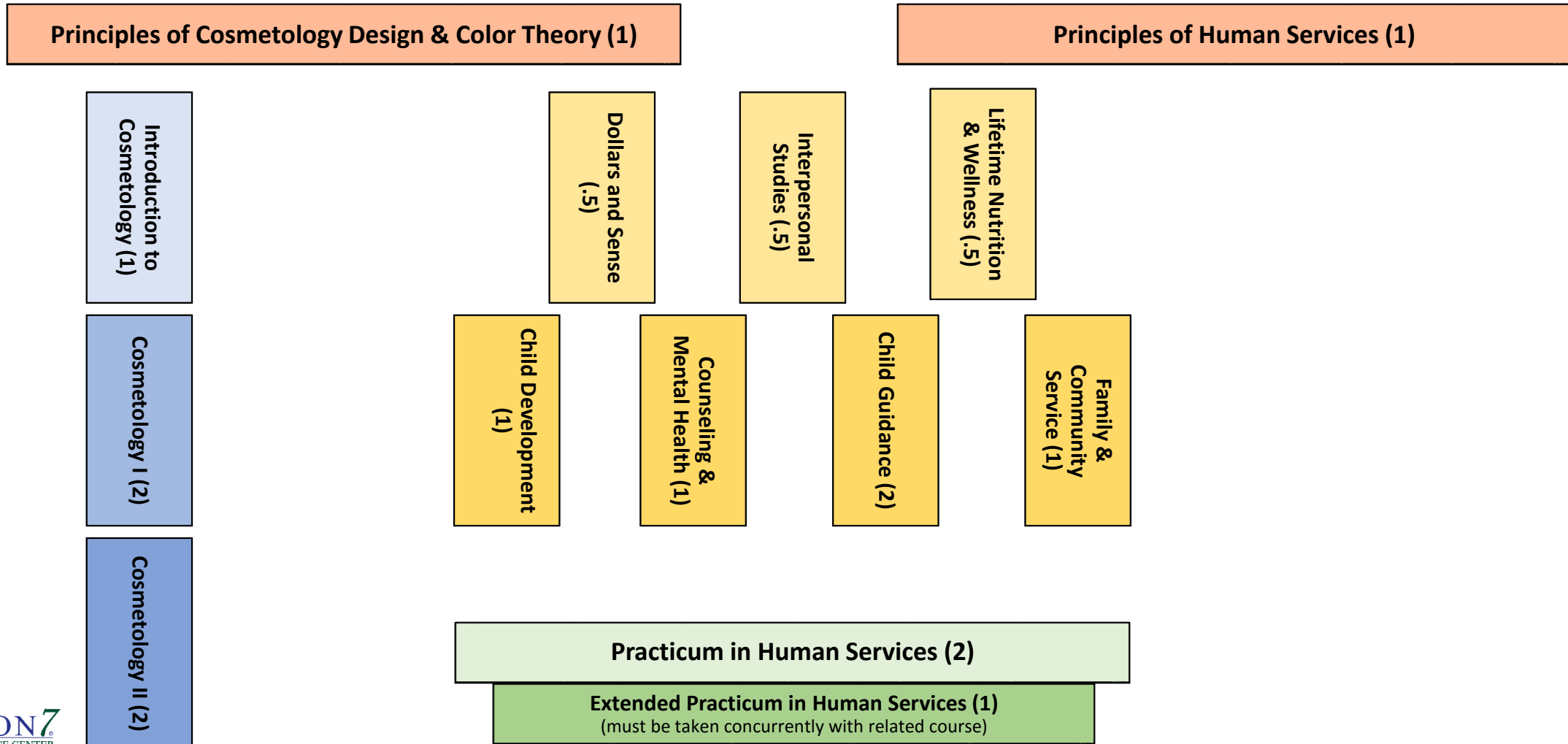
Health Informatics – 2 Prerequisites – BIM I and Medical Terminology

Pharmacology – 2 Prerequisites – Biology and Chemistry

Practicum in Health Science – 2 Prerequisites – Health Science Theory, and Biology; Can be repeated once for credit if different skills are taught

Public Services Endorsement

HUMAN SERVICES



PREREQUISITES/COREQUISITES

Cosmetology II

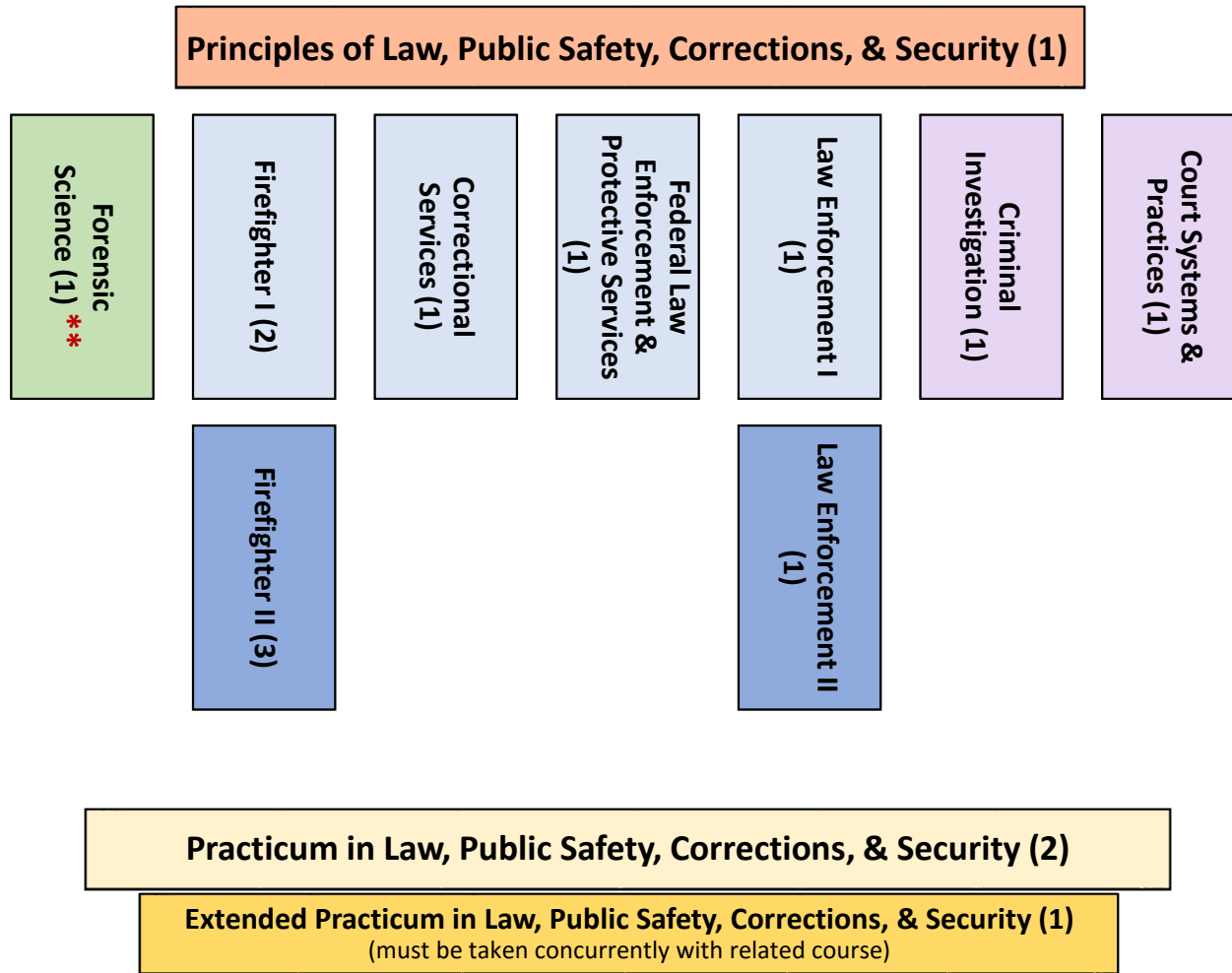
1 Prerequisite – Cosmetology I

Practicum in Human Services

Can be repeated once for credit if different skills are taught

Public Services Endorsement

LAW, PUBLIC SAFETY, CORRECTIONS, & SECURITY



**Course counts as Science Core Credit

PREREQUISITES/COREQUISITES

Forensic Science

2 Prerequisites – Biology & Chemistry

Firefighter II

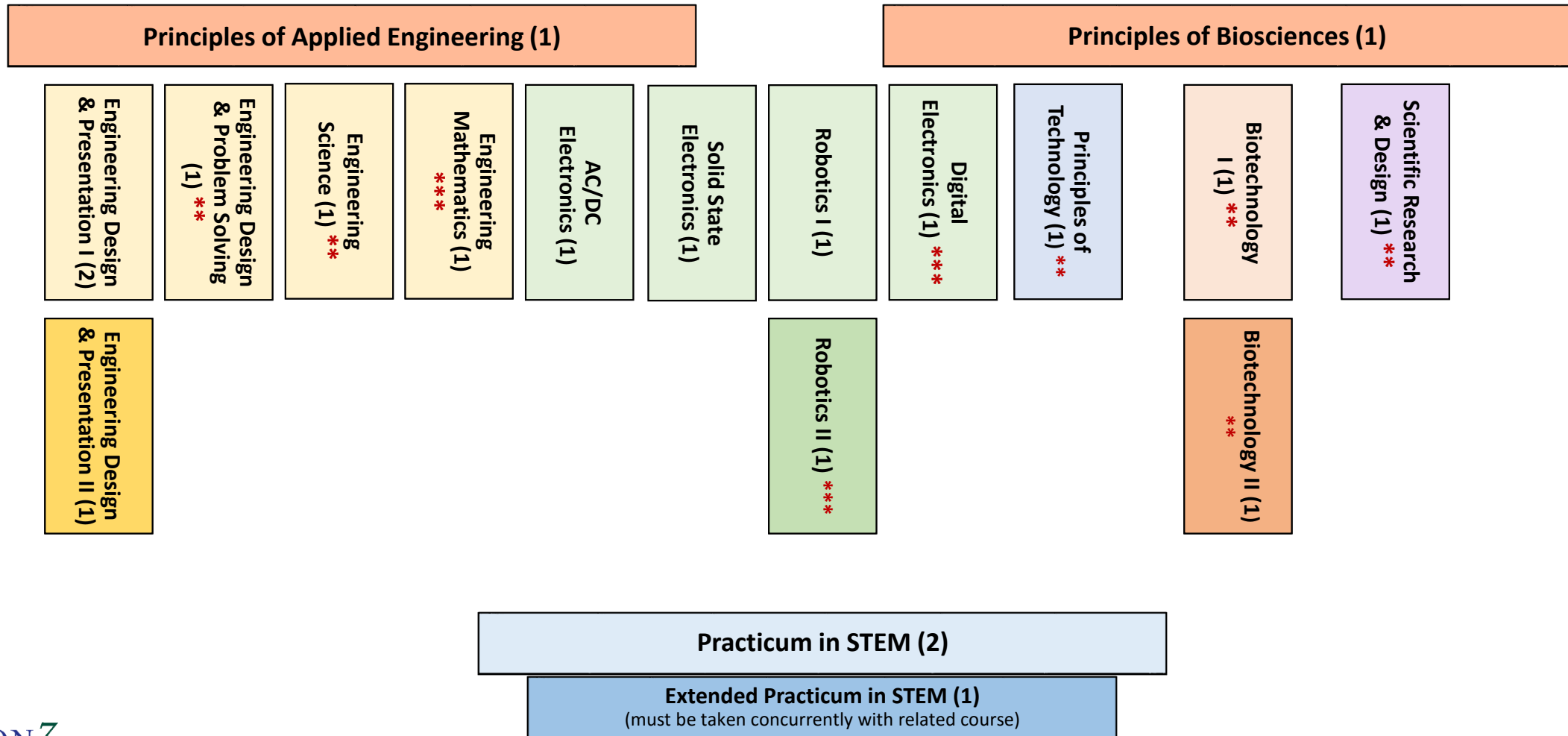
1 Prerequisite – Firefighter I

Practicum in Law, Public Safety, Corrections & Security

Can be repeated once for credit if different skills are taught

STEM Endorsement

SCIENCE, TECHNOLOGY, ENGINEERING, & MATHEMATICS (STEM)



***Course counts as Math Core Credit

**Course counts as Science Core Credit

PREREQUISITES/COREQUISITES

Biotechnology I – 2 Prerequisites - Biology & Chemistry

Biotechnology II - 2 Prerequisites – Biotechnology I & Chemistry

Engineering Design & Presentation I – 1 Prerequisite – Algebra I

Engineering Design & Presentation II – 2 Prerequisites – Algebra I & Geometry

Engineering Mathematics – 1 Prerequisite – Algebra II

Solid State Electronics – 1 Prerequisite – AC/DC Electronics

Robotics II – 1 Prerequisite – Robotics I

Principles of Technology – 2 Prerequisites – Algebra I and 1 High School Science

Scientific Research & Design – 1 Prerequisite – Biology, Chemistry IPC OR Physics

Engineering Design & Problem Solving – 2 Prerequisites – Algebra I & Geometry

Engineering Science – 2 Prerequisites – Algebra I & Biology, Chemistry, IPC OR Physics

Digital Electronics – 2 Prerequisites – Algebra I & Geometry

Practicum in STEM – 2 Prerequisites – Algebra I & Geometry; Can be repeated for credit if different skills are taught

CTE Courses for Core Credit(s)

English Language Arts

Business English

PEIMS Code 13011600

Math

Accounting II

PEIMS Code 13016700

Applied Mathematics for Technical Professionals

PEIMS Code 12701410

Digital Electronics

PEIMS Code 13037600

Engineering Mathematics

PEIMS Code 13036700

Financial Mathematics

PEIMS Code 13018000

Manufacturing Engineering Technology II

PEIMS Code 13032950

Mathematical Applications in Agriculture, Food, and Natural Resources

PEIMS Code 13001000

Mathematics for Medical Professionals

PEIMS Code 13020970

Robotics II

PEIMS Code 13037050

Statistics & Business Decision Making

PEIMS Code 13016900

Science

Advanced Animal Science

PEIMS Code 13000700

Advanced Plant & Soil Science

PEIMS Code 13002100

Anatomy & Physiology

PEIMS Code 13020600

Biotechnology I

PEIMS Code 13036400

Biotechnology II

PEIMS Code 13034500

Engineering Design & Problem Solving

PEIMS Code 13037300

Engineering Science

PEIMS Code 13037500

Food Science

PEIMS Code 13023000

Forensic Science

PEIMS Code 13029500

Medical Microbiology

PEIMS Code 13020700

Pathophysiology

PEIMS Code 13020800

Principles of Technology

PEIMS Code 13037100

Scientific Research & Design

PEIMS Code 13037200

Fine Arts

Floral Design

PEIMS Code 13001800

Chapter 127 CTE Courses

High School

Career Prep I (2)

PEIMS Code 12701300

Extended Career Prep I (1)

PEIMS Code 12701305

Career Prep II (2)

PEIMS Code 12701400

Extended Career Prep II (1)

PEIMS Code 12701405

Applied Mathematics for Technical Professionals (1)

PEIMS Code 12701410

Project Based Research 1st Time Taken (1)

PEIMS Code 12701500

Project Based Research 2nd Time Taken (1)

PEIMS Code 12701510

Project Based Research 3rd Time Taken (1)

PEIMS Code 12701520

Basics of Student Project Management (1)

PEIMS Code N1270151

General Employability Skills (1)

PEIMS Code N1290060

Middle School

College and Career Readiness

PEIMS Code 12700300

Investigating Careers 1st Time Taken

PEIMS Code 12700400

Investigating Careers 2nd Time Taken

PEIMS Code 12700410

Investigating Careers 3rd Time Taken

PEIMS Code 12700420

Investigating Careers 4th Time Taken

PEIMS Code 12700430

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