

STEM Endorsement

Science, Technology, Engineering, & Mathematics

Computer Science/Technology Cluster

Refer to Academic Planning Guide for Course Prerequisites

0500 Computer Science Programming

9 – 12th

0530 Pre AP Computer Science Programming

9 – 12th

5207 Android Mobile Application Development

(.5 credit course)

10 – 12th

***0510 AP Computer Science**

10 – 12th

**0610 Independent Study in Evolving/
Emerging Technology in Computer
Science**

11 – 12th

***0620 Robotics Programming Design**

11 - 12th

***5203 Computer/Digital Forensics**

11 - 12th

Math Option

***0510 AP Computer Science**

10 – 12th

**0630 Independent Study in Computer
Science Program I**

11 – 12th

**0640 Independent Study in Computer
Science II**

12th

Certifications: JAVA

****Advanced CTE Course in
Endorsement Plan Option***

STEM Endorsement

Science, Technology, Engineering, & Mathematics

Project Lead the Way

Refer to Academic Planning Guide for Course Prerequisites

5220 Introduction to Engineering Design
or
5270 Introduction to Engineering Design, Weighted Course
9 – 11th

5230 Civil Engineering & Architecture
or
5280 Civil Engineering & Architecture,
Weighted Course
10 – 12th

***4900 Principles of Engineering, Weighted Course**
10 – 12th

***5290 Aerospace Engineering,**
Weighted Course
11 – 12th

***3605 Digital Electronics,**
Weighted Course
11 – 12th

Math Option

***3605 Digital Electronics,**
Weighted Course
11 – 12th

Science Option

***4900 Principles of Engineering,**
Weighted Course
10 – 12th

***5295 Engineering Design & Development,** Weighted Course
12th

Successful completion of these courses will obtain Articulated Credit in Engineering.

****Advanced CTE Course in Endorsement Plan Option***

Business and Industry Endorsement

Agricultural Science Cluster

Animal Science Focus

Refer to Academic Planning Guide for Course Prerequisites

5100 Principles of Agriculture
9 – 12th

5135 Equine Science
(.5 credit course)
10 – 12th

5185 Livestock Production
(.5 credit course)
10 – 12th

5190 Small Animal Management
(.5 credit course)
10 – 12th

5165 Wildlife, Fisheries & Ecology
(.5 credit course)
10 – 12th

***5105 Veterinary Medical Applications**
11 – 12th

***5130 Practicum in Agriculture**
(2 credit course)
11 – 12th

***5150 Practicum in Veterinary Applications**
(2 credit course)
12th

Science Option

***5155 Advanced Animal Science**
11 – 12th

Certification: Veterinary Assistant

***Advanced CTE Course in Endorsement Plan Option**

Business and Industry Endorsement

Agricultural Science Cluster

Business Focus

Refer to Academic Planning Guide for Course Prerequisites

5100 Principles of Agriculture

9 – 12th

5175 Principles and Elements of Floral Design

(may be used as a fine arts credit)

9 – 12th

***5195 Horticulture**

10 – 12th

***5180 Advanced Floral Design**

10– 12th

***5170 Landscape Design and Management**

10– 12th

***5130 Practicum in Agriculture**

(2 credit course)

11 – 12th

Science Option

***5160 Advanced Plant & Soil Science**

11 – 12th

Certification: Texas Floral Design Level 1

****Advanced CTE Course in
Endorsement Plan Option***

Business and Industry Endorsement

Arts, Audio/Video Technology and Communication Cluster

Refer to Academic Planning Guide for Course Prerequisites

**7105 Film Appreciation,
Principles of Arts, Audio
Video Production**
9 – 12th

**7108 Audio Video
Production**
9 – 12th

7120 Video Game Design
9 – 12th

**7165 Graphic Design &
Illustration**
9 – 12th

***7160 Sports & Specials**
10 – 12th

***7100 Advanced Audio/
Video Production (MCS)**
10 – 12th

***7125 Practicum in Audio/
Video Production I (MCS II)**
(2 credit course)
11 - 12th

***7150 Practicum in Audio/
Video Production II (MCS III)**
(2 credit course)
12th

Optional Course

**7220 Professional
Communication**
(.5 credit course)
11 – 12th

**Certification: Society for Broadcast
Engineers Certified Television Operator**

****Advanced CTE Course in
Endorsement Plan Option***

Business and Industry Endorsement

Business and Finance Cluster

Refer to Academic Planning Guide for Course Prerequisites

5000 Principles of Business, Marketing, and Finance

9 – 12th

5020 Money Matters – Financial Literacy

9 – 12th

5075 Basics of Banking

(.5 credit course)

10 – 12th

5070 Stock Market 101

(.5 credit course)

10 – 12th

***5065 Global Business**

(.5 credit course)

10 – 12th

***5067 Business Law**

(.5 credit course)

10 – 12th

***5050 Accounting I**

10 – 12th

***5053 Accounting II**

11 -12th

***5010 Business Internship**

(2 credit course)

11 – 12th

Certification: Quick Books and Microsoft Office

****Advanced CTE Course in Endorsement Plan Option***

Business and Industry Endorsement

Hospitality Cluster

Refer to Academic Planning Guide for Course Prerequisites

5300 Principles of Hospitality & Human Services
(.5 credit course)
9 – 12th

5330 Lifetime Nutrition & Wellness
(.5 credit course)
9 – 12th

5355 Restaurant Management
(.5 credit course)
10 – 12th

***5340 Culinary Arts**
(2 credit course)
11 – 12th

***5350 Practicum in Culinary Arts I**
(2 credit course)
11 – 12th

***5353 Practicum in Culinary Arts II**
(2 credit course)
12th

Science Option

***5335 Food Science**
11 – 12th

Certification: Serv-Safe

****Advanced CTE Course in
Endorsement Plan Option***

Business and Industry Endorsement

Marketing Cluster

Refer to Academic Planning Guide for Course Prerequisites

5000 Principles of Business, Marketing, and Finance
9 – 12th

**5465 Sports & Entertainment
Marketing**
10 – 12th

***5060 Advertising & Sales Promotion**
10 – 12th

***5070 Stock Market 101**
(.5 credit course)
10 – 12th

***5040 Entrepreneurship/Be Your Own Boss**
11 – 12th

***5510 Marketing Practicum I/Internship**
(3 credit course)
11 – 12th

***5545 Marketing Practicum II/Internship**
(3 credit course)
12th

Optional Class

**5020 Money Matters –
Financial Literacy**
9 – 12th

**Certification: National Professional
Certification in Customer Service**

****Advanced CTE Course in Endorsement
Plan Option***

Business and Industry Endorsement

Information Technology Cluster

Refer to Academic Planning Guide for Course Prerequisites

5002 Principles of Information Technology
9 – 11th

7120 Video Game Design
9 – 12th

5034 Web Technologies
10 – 12th

***5007 Mentorship/Information Technology**
11 - 12th

Optional Class

0500 Computer Science Programming
9 – 12th
0539 Pre AP Computer Science Programming
9 – 12th

Certification: Adobe Certified Associate (ACA), Dreamweaver, Photo Shop, Flash Pro, Micro Soft Office & In-Design

****Advanced CTE Course in Endorsement Plan Option***

Public Service Endorsement

Education and Training Cluster

Refer to Academic Planning Guide for Course Prerequisites

5360 Introduction to Education & Training
(.5 credit course)
9 – 11th

5370 Child Development
(.5 credit course)
9 – 11th

***5380 Ready Set Teach I**
(2 credit course)
11 – 12th

***5385 Ready Set Teach II**
(2 credit course)
12th

Optional Class

7220 Professional Communications
(.5 credit course)
9 – 11th

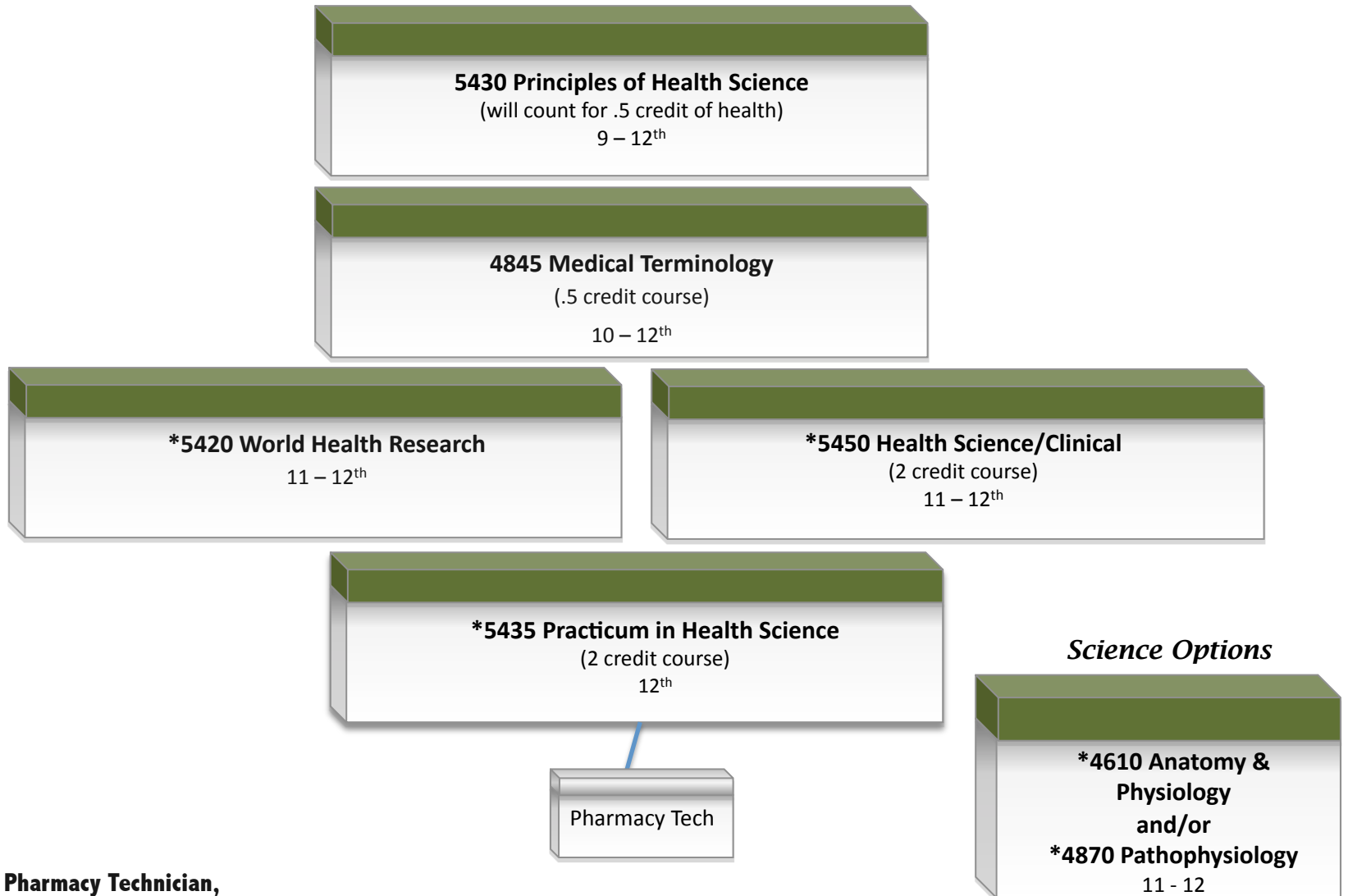
Certificate: Educational Aide I
(State Board for Educator Certificate)

****Advanced CTE Course in
Endorsement Plan Option***

Public Service Endorsement

Health Science Career Cluster

Refer to Academic Planning Guide for Course Prerequisites



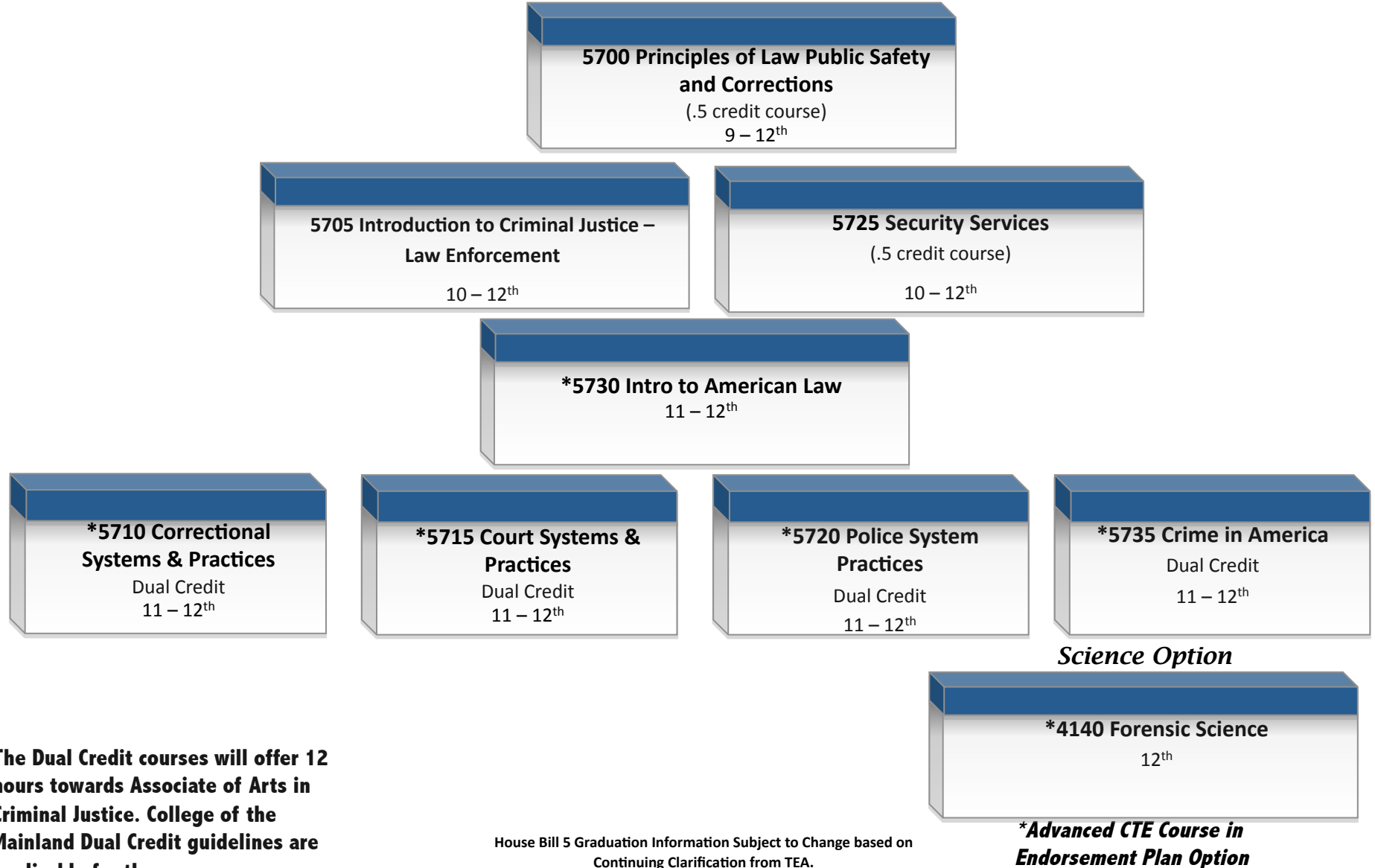
**Certifications: Pharmacy Technician,
CERT (students in 5450) *Community
Emergency Response Team, CPR**

****Advanced CTE Course in
Endorsement Plan Option***

Public Service Endorsement

Law, Public Safety and Correction, and Security Cluster

Refer to Academic Planning Guide for Course Prerequisites



The Dual Credit courses will offer 12 hours towards Associate of Arts in Criminal Justice. College of the Mainland Dual Credit guidelines are applicable for these courses.

House Bill 5 Graduation Information Subject to Change based on Continuing Clarification from TEA.