

# **ACADEMIC TECH PREP**

Academic Preparation  
Technical Studies  
Success

## **CHESAPEAKE PUBLIC SCHOOLS**

**Dr. W. Randolph Nichols**  
**Superintendent**

### **ACADEMIC TECH PREP ADVISORY COMMITTEE MEMBERS**

Canon ITS

Chesapeake Regional Medical Center

City of Chesapeake Economic Development Department

Damuth Trane

Dendrite International, Inc.

HSBC

LTD Management Company

Panasonic Customer Call Center

QVC Network, Inc.

Department of Labor and Industry

## WHAT IS TECH PREP?

**Academic Tech Prep** is a course of study that prepares students for both post-secondary education and work in a highly technological society. Courses are regularly reviewed by the advisory committee to ensure that they prepare students for changing work requirements and our global economy. Academic Tech Prep courses are offered at all Chesapeake high schools and the Center for Science and Technology.

Students can choose a course of study from among the following three career clusters:

- Business and Marketing
- Engineering and Technical
- Health and Human Services

Students may pursue either the Gold or Silver academic tech prep sequence in one of these career clusters. Students must complete the requirements for the Advanced Studies Diploma to earn the gold seal. The silver seal is awarded to students who complete the requirements for the Standard Diploma.

Students may continue their education at other state colleges or universities upon completion of a transfer program at TCC.

**STUDENTS MUST CONSULT WITH THEIR COUNSELOR TO DETERMINE CAREER AND TECHNICAL SEQUENCES REQUIRED FOR COMPLETION OF AN ACADEMIC TECH PREP PROGRAM.**

## GOLD- ADVANCED STUDIES DIPLOMA

ACADEMICS	COURSES REQUIRED
ENGLISH	4
MATH	4
LAB SCIENCE	4*
SOCIAL STUDIES	4
FOREIGN LANGUAGE	3
HEALTH & PE	2
ARTS	1
ELECTIVES	2**
<b>TOTAL</b>	<b>24</b>

ACADEMICS	COURSES REQUIRED
ENGLISH	4
MATH	3
LAB SCIENCE	3*
SOCIAL STUDIES	3
HEALTH & PE	2
ARTS	1
ELECTIVES	6**
<b>TOTAL</b>	<b>22</b>

## SILVER- STANDARD DIPLOMA

*\*Physics or Physics for Technology I & II are required as one lab science for the Engineering and Technical Career Cluster.*

*\*\* Electives must include a minimum of 2 courses from an approved CTE elective sequence. See career counselor for details.*

# **BUSINESS & MARKETING CAREER CLUSTER**

## **Academic Tech Prep Electives**

### **BUSINESS**

Keyboarding Applications 603/6152

Office Administration 605/6621

Desktop/Multimedia Presentations 607/6630

Advanced Design, Multimedia and Web Technologies 817/6631

Computer Information Systems 609/6612

Advanced Computer Information Systems 629/6613

Accounting 611/6320

Advanced Accounting 613/6321

Business Management 606/6135

Business Law 626/6131

Finance 625/6120

Office Specialist I 643/6740

Office Specialist II 646/6741

Office Specialist III 647/6742

Computer Network Software Operations 826

Computer Network Software Operations, Advanced 6651

\*Programming 6640

\*Database Design and Management 6660

\*IT Fundamentals 6670

\*Entrepreneurship Education 9094

### **MARKETING**

Introduction to Marketing 650/8110

Studies in Marketing 651/8120

Advanced Marketing 653/8130

Fashion Marketing 652/8140

Advanced Fashion Marketing 656/8145

Travel and Tourism Marketing 654/8165

Advanced Travel and Tourism Marketing 612/8167

Internet Marketing 649/8125

\*Sports, Entertainment and Recreational Marketing 8175

*\*Technology Academy at Grassfield High School*

# ENGINEERING & TECHNICAL CAREER CLUSTER

## Academic Tech Prep Electives

### TECHNOLOGY EDUCATION

Video and Media Technology 8497      \*Introduction to Engineering 8439  
Production Systems 919/8447      \*Principles of Engineering 8441  
Manufacturing Technology 902/8425      Basic Technical Drawing/Design 911/8435  
Materials & Processes 901/8433      Engineering Drawing/Design 916/8436  
Construction Technology 905/8431      Architectural Drawing/Design 918/8437  
Communications Systems 920/8415      Advanced Digital Drafting/Design 921/8459  
Technology 920/8415      Physics for Technology I 917 or 848/9811  
Computing Systems 899/8421      Physics for Technology II 922/9812  
Graphic Communications 924/8458      Electronic Systems I 910/8416  
Power & Transportation 935/8445      Electronic Systems II 907/8412  
Digital Photography 898/8455      \*Digital Electronics 8440  
Geospatial Technology 8423

### TRADE & INDUSTRIAL

HVACR I 807/8503 • HVACR II 818/8504  
Automotive Body Repair I, (Collision Repair) 822/8676  
Automotive Body Repair II, (Auto Paint) 824/8677  
Auto Service Technology I, (Specialist) 802/8506  
Auto Service Technology II, (Technician) 804/8507  
Bricklayer 805/8549  
Brick Masonry I 800/8512 • Brick Masonry II 811/8513  
Computer Systems Technology I 803/8622  
Computer Systems Technology II 827/8623  
Landscape Design & Management 820/8036  
Radio Communications I 840/8640  
Radio Communications II 841/8641  
Television Communications I 842/8688  
Television Communications II 843/8689  
Welding I 806/8672 • Welding II 816/8673  
Cooperative Technical Education I 659/8901  
Cooperative Technical Education II 660/8902  
Cooperative Technical Education III 661/8903  
Building Maintenance 8904  
Computer Networking Hardware Operations I 8542  
Computer Networking Hardware Operations II 8543

*\*Technology Academy at Grassfield High School*



# **HEALTH HUMAN SERVICES CAREER CLUSTER**

## **Academic Tech Prep Electives**

### **FAMILY & CONSUMER SCIENCE**

Individual Development 926/8210

Parenting 936/8232

Life Planning 934/8227

Family Relations 941/8225

Intro. to Housing, Home Furnishings, and Design Occupation 925/8255

Resource Management 942/8219

Intro. to Fashion Design 930/8248

Nutrition & Wellness 931/8229

Work and Family Management 929/8282

Introduction to Culinary Arts 943/8250

Culinary Arts I 947/8275

Culinary Arts II 960/8276

Fashion Design Occupations I 945/8280

Fashion Design Occupations II 946/8281

### **HEALTH**

Practical Nursing (LPN) 830/8357

Health Care Technology 849/8360

EMT 831/8333

### **HUMAN SERVICES**

Cosmetology I 808/8527

Cosmetology II 810/8528

Nail Technician 8692

Public Safety/Firefighting 8705

Teacher Cadet/Career Pathways 038

**FOR MORE INFORMATION CONTACT  
YOUR HIGH SCHOOL CAREER COUNSELOR  
OR THE OFFICE OF  
CAREER AND TECHNICAL EDUCATION  
AT 547-1098**

For additional information visit the Career and Technical Education Career Planning Guide @ [www.cte.resource.org/cpg](http://www.cte.resource.org/cpg). This is a web-based tool that connects future careers, education plans, and CTE Courses for students.

# CAREER AND TECHNICAL EDUCATION COUNSELORS

Deep Creek High School  
Robert Bierman  
558-5302

Grassfield High School  
Jennifer Clock  
558-4749

Great Bridge High School  
Rita Schellenberg  
482-5191

Hickory High School  
Brad Markin  
421-4295

Indian River High School  
Dee Winslow  
578-7000

Oscar Smith High School  
Malia Huddle  
548-0696

Western Branch High School  
Rene Guity  
638-7900

Chesapeake Center for  
Science and Technology  
Jenise Bond  
547-0134