# Agricultural Education

(Courses in bold have been revised for 2022-2023)

## Course Code Course Title

8022 Agricultural Business Fundamentals I (Revised)

8026 Agricultural Business Management III (Revised)

8024 Agricultural Business Operations II (Revised)

8053 Agricultural Education—Development

8050 Agricultural Education—Preparation

8019 Agricultural Fabrication and Emerging Technologies (Revised)

**8018 Agricultural Power Systems**

**8020 Agricultural Power Systems, Advanced**

8010 Agricultural Production Technology

8017 Agricultural Structural Systems (Revised)

8004/8001 Agriscience and Technology

8003 Agriscience Exploration

8072/8073 Applied Agricultural Concepts

**AIU Aquaculture Infusion Units**

8086 Biological Applications in Agriculture

8087 Biotechnology Applications in Agriculture

8085 Biotechnology Foundations in Agricultural Education

8048 Community Forestry and Tree Management (Revised)

8074 Cybersecurity in Food and Agriculture

8075 Cybersecurity in Food and Agriculture, Advanced

8045/8046 Ecology and Environmental Management

8015/8080 Equine Science

8094 Equine Science, Advanced

**8041 Fisheries and Wildlife Management**

8055 Floral Design I

8056 Floral Design II

8038 Floriculture

8042 Forestry Management

8044 Forestry Management, Advanced

8006 Foundations of Agriculture, Food, and Natural Resources

8035 Greenhouse Plant Production and Management

8034 Horticulture Sciences

8013/8011/8009/8002 Introduction to Agriscience

**8008 Introduction to Animal Systems**

8040 Introduction to Natural Resources and Ecology Systems (Revised)

8007 Introduction to Plant Systems (Revised)

**8016 Introduction to Power, Structural, and Technical Systems**

8036 Landscaping I

8039 Landscaping II

8012 Livestock Production Management

8014 Operating the Farm Business

8043 Outdoor Recreation, Parks, and Tourism Systems Management

**8081/8083 Small Animal Care I**

**8084 Small Animal Care II**

8021/8082 Small Engine Repair

8051 Turf Grass Management

8054 Turf Grass Management, Advanced

**8088 Veterinary Science I**

**8089 Veterinary Science II**

# Business and Information Technology

(Courses in bold have been revised for 2022-2023)

## Course Code Course Title

6320 Accounting

6321 Accounting, Advanced

6745/6746 Business Individualized Program

6131/6132 Business Law

6135/6136 Business Management

6612/6614 Computer Information Systems

6613/6615 Computer Information Systems, Advanced

6650 Computer Network Software Operations (Revised)

6651 Computer Network Software Operations, Advanced (Revised)

6606/6607/6608/6609/6610 Computer Solutions

6302 Cybersecurity Fundamentals (Revised)

6304 Cybersecurity Operations (Revised; formerly Cybersecurity Software Operations)

6306 Cybersecurity Operations, Advanced (Revised; formerly Cybersecurity Software Operations, Advanced)

6660 Database Design and Management (Oracle)

6662 Database Design and Management with PL/SQL (Oracle)

6630/6632 Design, Multimedia, and Web Technologies (Revised)

6631/6633 Design, Multimedia, and Web Technologies, Advanced (Revised)

6617/6611 Digital Applications

6160/6161 Digital Technology Foundations

**6120 Economics and Personal Finance**

6670 Information Technology (IT) Fundamentals

IB6135 International Baccalaureate Business Management (Revised)

IB6613 International Baccalaureate Information Technology in a Global Society (Revised)

IB9098 International Baccalaureate (IB) Personal and Professional Skills (PPS)

6661 Java Programming (Oracle)

6147/6148/6149/6150 Keyboarding Middle

6735/6736 Legal Administration

6730/6731 Medical Administration

**6621/6622 Office Administration**

6740 Office Specialist I—Preparation

6741 Office Specialist II—Preparation

6742 Office Specialist III—Preparation

**6121 Personal Finance**

6115/6116 Principles of Business and Marketing

6640 Programming

6641 Programming, Advanced

# Career Connections

(Courses in bold have been revised for 2022-2023)

## Course Code Course Title

9066 Career Explorations: Elementary Grades

**9069/9070 Career Investigations**

**9074/9071 Career Strategies**

**9030/9031/9032/9082/9083 Education for Employment Exploratory Development**

**9020/9021/9022/9075/9076 Education for Employment Exploratory Preparation**

**9084/9085 Education for Employment I—Development**

**9086/9087 Education for Employment II—Development**

**9077/9078 Education for Employment I—Preparation**

**9079/9080 Education for Employment II—Preparation**

9093 Entrepreneurship Education

9094 Entrepreneurship Education, Advanced

9091 Introduction to Leadership

9096/9097 Leadership Development

# Family and Consumer Sciences

(Courses in bold have been revised for 2022-2023)

## Course Code Course Title

8279 Baking and Pastry Specialization (Replaces Culinary Arts Specialization [8279]

**8282/8205 Career, Community and Family Connections**

8272 Catering/Banquet Specialization (Replaces Culinary Arts Specialization [8279]

8232/8231 Child Development and Parenting (Revised)

8275 Culinary Arts I

8276 Culinary Arts II

8291 Cybersecurity in Family and Consumer Sciences

8292 Cybersecurity in Family and Consumer Sciences, Advanced

8285 Early Childhood, Education, and Services I

8286 Early Childhood, Education, and Services II

**8222 Family and Consumer Sciences Development**

8208/8207/8206/8204 Family and Consumer Sciences Exploratory I

8263/8262/8261/8260 Family and Consumer Sciences Exploratory II

8245/8244/8243/8242/8241 Family and Consumer Sciences Exploratory III

8264 Family and Human Services I

8265 Family and Human Services II

8225/8223 Family Relations

8280 Fashion Careers I

8281 Fashion Careers II

8239 Food Science and Dietetics (Revised)

8278/8277 GRADS (Graduation, Reality, and Dual-Role Skills): Family Focus (Revised)

8213 GRADS (Graduation, Reality, and Dual-Role Skills): Work Focus (Revised)

8202 Hospitality, Tourism, and Recreation I

8203 Hospitality, Tourism, and Recreation II

8219/8214 Independent Living (Revised)

**8210/8209 Individual Development**

8295 Interior Design I

8296 Interior Design II

8250/8249 Introduction to Culinary Arts

8234/8233 Introduction to Early Childhood, Education, and Services

8238/8237 Introduction to Family and Human Services

8248/8247 Introduction to Fashion Careers

8259/8258 Introduction to Hospitality, Tourism, and Recreation

8255/8254 Introduction to Interior Design

**9061/9060 Introduction to Virginia Teachers for Tomorrow**

8227/8226 Life Planning

8229/8228 Nutrition and Wellness

8273 Quantity Food Specialization (Replaces Culinary Arts Specialization [8279]

8274 Restaurant Operation Specialization (Replaces Culinary Arts Specialization [8279]

**9062 Virginia Teachers for Tomorrow I**

**9072 Virginia Teachers for Tomorrow II**

# Health and Medical Sciences

(Courses in bold have been revised for 2022-2023)

## Code Title

8382 Biomedical Innovation (PLTW)

**8347 Biomedical Technician**

8344 Biotechnology Foundations in Health and Medical Sciences (Revised)

8328 Dental Careers I (Revised)

8329 Dental Careers II (Revised)

8336 Emergency Medical Responder

8333 Emergency Medical Technician I

8334 Emergency Medical Technician II

8335 Emergency Medical Technician III

8337 Emergency Medical Telecommunications

8339 Healthcare Information Cybersecurity

8370 Health and Medical Sciences Exploratory

8331 Health Assisting Careers

**8338 Health Informatics**

8364 Home Health Aide

8380 Human Body Systems (PLTW)

8302 Introduction to Health and Medical Sciences

**8354 Introduction to Mortuary Science**

8390 Introduction to Nutrition for Health and Medical Sciences

8345 Medical Assistant I

8346 Medical Assistant II

8388 Medical Coding and Billing I (Revised)

8389 Medical Coding and Billing II (Revised)

8381 Medical Interventions (PLTW)

8377 Medical Laboratory Technology I (Revised)

8378 Medical Laboratory Technology II (Revised)

8383 Medical Terminology

8368 Medication Aide

8332 Mental Health Assisting Careers

8360 Nurse Aide I

8355 Nurse Aide I Condensed

8362 Nurse Aide II

8356 Nurse Aide II Condensed

8303 Patient Care Technician

8305 Pharmacy Technician I

8306 Pharmacy Technician II

8365 Physical/Occupational Therapy I

8366 Physical/Occupational Therapy II

**8357 Practical Nursing I**

**8358 Practical Nursing II**

**8359 Practical Nursing III**

8379 Principles of the Biomedical Sciences (PLTW)

8375 Radiologic Technology I

8376 Radiologic Technology II

**8372 Respiratory Therapy I**

**8373 Respiratory Therapy II**

7660 Sports Medicine I

8316 Sports Medicine I Condensed

7662 Sports Medicine II

8317 Sports Medicine II Condensed

8367 Sterile Processing Technician

8351 Surgical Technologist I

8352 Surgical Technologist II

8397 Vision Care Technician I

8398 Vision Care Technician II

# Marketing

(Courses in bold have been revised for 2022-2023)

## Course Code Course Title

8126 Cybersecurity in Marketing

8127 Cybersecurity in Marketing, Advanced

8125 Digital and Social Media Marketing (Revised)

8140 Fashion Marketing

8145 Fashion Marketing, Advanced

8159 Hotel Management and Operations

**8110/8111 Introduction to Marketing**

8109/8112/ 8113/8114 Make It Your Business

**8120 Marketing**

8132 Marketing Management

**8130 Marketing, Advanced**

8135 Opportunities in Global Trade

8136 Opportunities in Global Trade, Advanced

**8191 Real Estate**

8175 Sports and Entertainment Marketing (Revised)

8177 Sports and Entertainment Management (Revised)

8139 Travel and Tourism Marketing

8169 Travel, Tourism, and Destination Marketing

# Military Science

(Courses in bold have been revised for 2022-2023)

## Course Code Course Title

AF7913 Air Force JROTC I

AF7916 Air Force JROTC II

AF7918 Air Force JROTC III

AF7919 Air Force JROTC IV

**AR7913 Army JROTC I**

**AR7916 Army JROTC II**

**AR7918 Army JROTC III**

**AR7919 Army JROTC IV**

MC7913 Marine Corps JROTC I

MC7916 Marine Corps JROTC II

MC7918 Marine Corps JROTC III

MC7919 Marine Corps JROTC IV

NA7913 Navy JROTC I

NA7916 Navy JROTC II

NA7918 Navy JROTC III

NA7919 Navy JROTC IV

# Technology Education

(Courses in bold have been revised for 2022-2023)

## Course Code Course Title

8438 Advanced Drawing and Design (Revised)

8428 Aerospace Engineering (PLTW)

8487 Aerospace Technology I

8488 Aerospace Technology II

AC8479 App Creators (PLTW)

8437/8492 Architectural Drawing and Design (Revised)

AR8476 Automation and Robotics (PLTW)

8467 Biomedical Engineering

8468 Biotechnology Foundations in Technology Education

8430 Civil Engineering and Architecture (PLTW)

**8415/8418 Communication Systems**

8442 Computer Integrated Manufacturing (PLTW)

CS8479 Computer Science for Innovators and Makers (PLTW)

**8431/8432 Construction Technology**

8499 Cybersecurity in Manufacturing

8496 Cybersecurity in Manufacturing, Advanced

DM8476 Design and Modeling (PLTW)

8440 Digital Electronics (PLTW)

8459 Digital Visualization

8416/8417 Electronics Systems I

8412 Electronics Systems II

8413 Electronics Systems III

8448/8495 Energy and Power (Revised)

EE8479 Energy and the Environment (PLTW)

ED8411 Energy Demand: Sustainability and Efficiency

LC8411 Energy Source Life Cycle

ES8411 Energy Supply: Sustainability and Efficiency

TD8411 Energy Transmission and Distribution, Advanced

EES8411 Engineered Energy Systems

8451 Engineering Analysis and Applications II

8449 Engineering Computer Science

8452 Engineering Concepts and Processes III

8443 Engineering Design and Development (PLTW)

8436/8493 Engineering Drawing and Design (Revised)

8450 Engineering Explorations I

8453 Engineering Practicum IV

8491 Engineering Studies

8489 Entertainment Design and Technology

FS8479 Flight and Space (PLTW)

8409 Forensic Technology

FP8411 Fundamentals of Power Generation

8400 Game Design and Development

8401 Game Design and Development, Advanced

8423 Geospatial Technology I

8424 Geospatial Technology II

8419 Global Logistics and Enterprise Systems I

8422 Global Logistics and Enterprise Systems II

**8458/8494 Graphic Communications Systems**

GA8479 Green Architecture (PLTW)

8474/8455 Imaging Technology

IB4585 International Baccalaureate Design Technology I

IB4586 International Baccalaureate Design Technology II

IT8411 Introduction to Energy Transmission and Distribution

8439 Introduction to Engineering Design (PLTW)

**8480/8481/ Introduction to Technology**

**8482/8483/8484**

**8454/8456/8461 Inventions and Innovations**

**8464/8485**

ME8479 Magic of Electrons (PLTW)

8425/8426 Manufacturing Systems I

8427 Manufacturing Systems II, Advanced

8433/8478 Materials and Processes Technology

MD8479 Medical Detectives (PLTW)

8460 Modeling and Simulation Technology (Revised)

8444/8445 Power and Transportation

PG8411 Power Generation Design and Function

8441 Principles of Engineering (PLTW)

9811 Principles of Technology I (Revised)

9812 Principles of Technology II (Revised)

8446/8447 Production Systems

8408 Renewable Energy (Revised)

ST8479 Science of Technology (PLTW)

8470 Software Engineering (PLTW)

8473 Software Engineering Essentials (PLTW)

**8414 Sustainability and Renewable Technologies**

8434/8435 Technical Drawing and Design (Revised)

**8477/8457/8486/8463/8462 Technological Systems**

8406/8407 Technology Assessment

8471 Technology Education—Development

8769 Technology Education—Preparation

8402/8403 Technology Foundations

8420/8421 Technology of Robotic Design

8404/8405 Technology Transfer

(NEW) Unmanned Aircraft Systems (New)

8497 Video and Media Technology

# Trade and Industrial Education

(Courses in bold have been revised for 2022-2023)

## Course Code Course Title

8570 Advertising Design I

8571 Advertising Design II

8734 Air Traffic Controller

8731 Aircraft Pilot Training I

8732 Aircraft Pilot Training II

**8676 Auto Body Technology I**

**8677 Auto Body Technology II**

**8678 Auto Body Technology III**

8506 Automotive Technology I

8502 Automotive Technology I (MLR 3-Year Program)

8507 Automotive Technology II

8508 Automotive Technology III

8728 Aviation Maintenance Technology I

8729 Aviation Maintenance Technology II

8730 Aviation Operations Management

8724 Basic Small Engine Repair

**8546 Beauty Salon Assistant**

8590 Building Management I

8591 Building Management II

8592 Building Management III

8515 Building Trades I

8516 Building Trades II

8604 Cabinetmaking I

8605 Cabinetmaking II

8601 Carpentry I

8602 Carpentry II

8603 Carpentry III

8607 Commercial Photography I

8608 Commercial Photography II

8542 Computer Networking Hardware Operations I (Revised)

8543 Computer Networking Hardware Operations II (Revised)

8544 Computer Networking Hardware Operations III (Revised)

8545 Computer Networking Hardware Operations IV (Revised)

**8622 Computer Systems Technology I**

**8623 Computer Systems Technology II**

**8527 Cosmetology I (Three-year Program)**

**8528 Cosmetology II (Three-year Program)**

**8529 Cosmetology III (Three-year Program)**

**8745 Cosmetology I (Two-year program)**

**8746 Cosmetology II (Two-year program)**

8702 Criminal Justice I

8703 Criminal Justice II

**8630 Cybersecurity Network Systems**

**8628 Cybersecurity Systems Technology**

**8629 Cybersecurity Systems Technology, Advanced**

**8613 Diesel Equipment Technology I**

**8614 Diesel Equipment Technology II**

**8615 Diesel Equipment Technology III**

**8530 Drafting I**

**8531 Drafting II**

**8532 Drafting III**

**8533 Electricity I**

**8534 Electricity II**

**8535 Electricity III**

8537 Electronics Technology II

8547 Electronics-Industrial Robotics Technology

8705 Firefighting I

8706 Firefighting II

8660 Graphic Imaging Technology I

8661 Graphic Imaging Technology II

8503 Heating, Ventilation, Air Conditioning, and Refrigeration I

8504 Heating, Ventilation, Air Conditioning, and Refrigeration II

8575 Industrial Maintenance Technology I

8576 Industrial Maintenance Technology II

8558 Industrial Robotics Technology II

8750 Marine Service Technology I

8751 Marine Service Technology II

8512 Masonry I

8513 Masonry II

8514 Masonry III

**8740 Master Barber I (Three-year program)**

**8741 Master Barber II (Three-year program)**

**8742 Master Barber III (Three-year program)**

**8743 Master Barber I (Two-year program)**

**8744 Master Barber II (Two-year program)**

8554 Mechatronics I (Revised)

8555 Mechatronics II (Revised)

8556 Mechatronics III (Revised)

8509 Motorsports Technology I

8510 Motorsports Technology II

8511 Motorsports Technology III

8692 Nail Technician I

8693 Nail Technician II

8551 Plumbing I

8552 Plumbing II

8539 Precision Machining Technology I (Revised)

8540 Precision Machining Technology II (Revised)

8700 Public Safety I

8701 Public Safety II

8640 Radio Communications I

8641 Radio Communications II

**8663 Sheet Metal I**

**8664 Sheet Metal II**

8725 Small Engine Technology I (Revised)

8726 Small Engine Technology II (Revised)

8650 Telecommunications I

8651 Telecommunications II

8688 Television and Media Production I

8689 Television and Media Production II

8690 Television and Media Production III

8616 Utility/Heavy Construction I

8617 Utility/Heavy Construction II

8672 Welding I (Revised)

8673 Welding II (Revised)

8674 Welding III (Revised)