

Academic Planner

Grade 11 Courses

Semester 1

1. English _____
2. Health II _____
3. Focused Elective _____
4. Focused Elective _____
5. Elective _____
6. Elective _____
7. _____
8. _____

Semester 2

- English _____
- 20th Century American History _____
- Focused Elective _____
- Focused Elective _____
- Elective _____
- Elective _____
- _____
- _____

ACADEMY
FOCUS AREA

Grade 12 Courses

Semester 1

1. English _____
2. Economics _____
3. Focused Elective _____
4. Focused Elective _____
5. Elective _____
6. Elective _____
7. _____
8. _____

Semester 2

- English _____
- Government _____
- Focused Elective _____
- Focused Elective _____
- Elective _____
- Elective _____
- _____
- _____

ACADEMY
FOCUS AREA

For admission to a four-year college, you are required to:
Take additional courses in areas such as language arts, mathematics, science,
social science and second language, OR to demonstrate proficiency at PASS
(Proficiency-based Admissions Standards System) levels.

See your counselor for special college details.

Academies



A Guide To Earning A CERTIFICATE OF ADVANCED MASTERY

Forest Grove High School
1401 Nichols Lane
Forest Grove, OR 97116
www.fgsd.k12.or.us

Academies

Forest Grove High School is offering juniors and seniors a choice of six areas, or Academies, to enhance their required studies. Similar to majors in college, each student will choose or develop an Academy that matches their interests to help them to focus on an array of electives.

For students going directly into the work force or on to community college for further technical training, Academies provide both academic grounding as well as requirements and opportunities for participating in the world of work: projects, community service, internships, job shadowing and employment.

For students whose goals are a four-year college and/or further education at the graduate level, the Academies provide the academic rigor for entrance into higher education. For students who elect a more rigorous program, we also have Advanced Placement courses.

A strong part of the Forest Grove High School Academies approach is the close working relationships with employers. Forest Grove High School has contacts with over 3,000 businesses and organizations in the area, which provide a range of opportunities for students.

Certificate of Advanced Mastery (CAM)

Students at Forest Grove High School have an opportunity to go one more step beyond a diploma. The Certificate of Advanced Mastery (CAM) is an award earned by students who demonstrate application and extension of academic and career related learning knowledge and skills in new and complex situations appropriate to the student's personal, academic and career interests and post high school goals.

This booklet is a guide to achieving a CAM in one or more focus areas. The Certificate of Advanced Mastery (CAM) was created to assure that each student is prepared for successful transitions to his or her next steps, whether that's college, trade school, military or the world of work.

In preparation for successful transitions to next steps, each student:

- pursues personal, academic and evolving career interests and post high school goals.
- is actively engaged in his/her own educational planning and takes responsibility for his/her own learning.
- applies high-level academic and career-related knowledge and skills in relevant and meaningful learning experiences.
- has support from school, parents and the community.

Plant Science Focus

Required Courses *(Must complete 2 credits)*

- Agriculture Leadership (½ CR)
- Biotechnology in Agriculture (½ CR)
- Exploring Plants (½ CR)
- Introduction to Horticulture (1 CR)
- Landscape Design (1 CR)

Elective Courses *(Must complete 2 credits if not taken above)*

- Advanced Agriculture (1 CR or 2 CR)
- Agriculture I (½ CR)
- Agriculture II (½ CR)
- Agriculture Leadership (½ CR)
- Biotechnology in Agriculture (½ CR)
- Exploring Plants (½ CR)
- Introduction to Horticulture (1 CR)
- Landscape Design (1 CR)
- Spanish I (1 CR)
- Spanish II (1 CR)

Capstone Experiences

(Must complete at least 1 experience below and have Natural Resources Academy approval)

- Academy-Related Senior Project
- Agriculture Leadership
- Agriculture Occupational Experience
- Environmental Volunteer Work
- Horticulture Plant Sales
- Independent Study
- Off Campus Career-Related Learning Experience
- Work Experience

Animal Science Focus

Required Courses *(Must complete 2 credits)*

- Agriculture I (½ CR)
- Agriculture II (½ CR)
- Advanced Agriculture (1 or 2 CR)
- Animal Science (½ CR)
- Biotechnology in Agriculture (½ CR)

Elective Courses *(Must complete 2 credits if not taken above)*

- Advanced Agriculture (1 CR or 2 CR)
- AP Biology (1 CR)
- Agriculture I (½ CR)
- Agriculture II (½ CR)
- Agriculture Occupations (1CR)
- Anatomy & Physiology (1 CR)
- Animal Science (½ CR)
- Biotechnology in Agriculture (½ CR)
- Any Chemistry (1 CR)
- Natural Resources (½ CR)

Capstone Experiences

(Must complete at least 1 experience below and have Natural Resources Academy approval)

- Agriculture Occupational Experience
- Environmental Volunteer Work
- Independent Study
- Off Campus Career-Related Learning Experience
- Work Experience
- Academy-Related Senior Project

Environmental Science Focus

Required Courses *(Must complete 2.5 credits)*

- AP Biology (1 CR)
- Biotechnology in Agriculture (½ CR)
- Any Chemistry (1 CR)
- Natural Resources (½ CR)
- Outdoor Science (½ CR)

Elective Courses *(Must complete 1.5 credits if not taken above)*

- | | |
|---------------------------------------|---------------------------------------|
| ■ AP Biology (1 CR) | ■ Introduction to Horticulture (1 CR) |
| ■ Astronomy (½ CR) | ■ Landscape Design (½ CR or 1 CR) |
| ■ Biotechnology in Agriculture (½ CR) | ■ Natural Resources (½ CR) |
| ■ Any Chemistry (1 CR) | ■ Outdoor Science (½ CR) |
| ■ Exploring Plants (½ CR) | ■ Any Physics (1 CR) |

Capstone Experiences

(Must complete at least 1 experience below and have Natural Resources Academy approval)

- Academy-Related Senior Project
- Agriculture Occupational Experience
- Environmental Volunteer Work
- Independent Study
- Off Campus Career-Related Learning Experience
- Work Experience

Academies and Focus Areas offered at Forest Grove High School

Academies are offered in six career areas, offering students a roadmap for setting educational and career goals and an opportunity to take courses in areas of high interest:

Arts/Communication Academy

- Communication
- Performing Arts
- Visual Arts

Business Academy

- Administrative Services
- Culinary Arts
- Financial Services
- Marketing/Management

Health Services Academy

- Fitness & Nutrition
- Health Services

Human Resources Academy

- Early Childhood Education
- Firefighting
- Law
- International Relations

Industrial/Engineering Academy

- Automotive
- Construction Design
- Construction Manufacturing
- Engineering
- Home Construction
- Metals

Natural Resources Academy

- Agriculture
- Agriculture Business
- Animal Science
- Environmental Science
- Plant Science

Students may design a distinctive focus area with assistance and approval from their counselor and CAM administrator.

How to get a CAM

In order to receive a Certificate of Advanced Mastery, a student must complete the following requirements. The first four are required by the State of Oregon to graduate.

- **Develop an education plan and build an education profile.**

Education plan - Students select classes they plan to take for the next four years. They also include information about their career and personal goals. This plan will be updated each year. It is a map of where students are, where they plan to be after high school and how they are going to get there.

Education profile - Each year, students must write about their progress in the education plan and record their awards, accomplishments, experiences and new skills such as learned technical/job skills, club/team involvement, volunteer activities or certifications. Students will review what they have accomplished and where improvement is needed. Some of this information may be used later in resumes and college applications.

- **Meet the performance standard for extended application through a collection of evidence at the proficient (P) level.**

An extended application is usually a classroom project or presentation. The student takes information and skills learned in class and shows how to apply them to real situations. These projects should match their career and education goals. For example, a student interested in fire science may have a demonstration project in chemistry explaining how fire retardants work.

- **Demonstrate career-related knowledge and skills at the proficient (P) level.**

There are six career-related learning standards that a student must attain: personal management, problem solving, communication, teamwork, employment foundations and career development. These are life long skills that students will need in work and community. These skills are taught in the classroom and are included in projects and career experiences such as job shadows, internships, senior project and school businesses.

Natural Resources Academy Guidelines

Agriculture Focus

Available Courses (Must complete 4 credits)

- Agriculture I (½ CR)
- Agriculture II (½ CR)
- Advanced Agriculture (1 or 2 CR)
- AP Biology (1 CR)
- Agriculture Leadership (½ CR)
- Animal Science (½ CR)
- Biotechnology in Agriculture (½ CR)
- Any Chemistry (1 CR)
- Exploring Plants (½ CR)
- Introduction to Horticulture (1 CR)
- Natural Resources (½ CR)
- Landscape Design (1 CR)
- Marketing (½ CR)
- Outdoor Science (½ CR)
- Spanish I (1 CR)

Capstone Experiences

(Must complete at least 1 experience below and have Natural Resources Academy approval)

- Academy-Related Senior Project
- Agriculture Leadership
- Agriculture Occupational Experience
- Environmental Volunteer Work
- Horticulture Plant Sales
- Independent Study
- Off Campus Career-Related Learning Experience
- Work Experience

Agriculture Business Focus

Required Courses (Must complete 3 credits)

- Advanced Agriculture (1 CR)
- Business & Management Core (1 CR)

Elective Courses (Must complete 1 credit)

- Advanced Agriculture (1 CR) (2nd year)
- Agriculture I (½ CR)
- Agriculture II (½ CR)
- Agriculture Leadership (½ CR)
- Animal Science (½ CR)
- Biotechnology in Agriculture (½ CR)
- Exploring Plants (½ CR)
- Introduction to Horticulture (1 CR)
- Landscape Design (1 CR)
- Marketing (½ CR)
- Natural Resources (½ CR)
- Outdoor Science (½ CR)
- Spanish I (1 CR)
- Any Statistics (1 CR)

Capstone Experiences (Must complete at least 1 experience below and have Natural Resources Academy approval)

- Academy-Related Senior Project
- Agriculture Leadership
- Agriculture Occupational Experience
- Business & Management Core
- Environmental Volunteer Work
- Horticulture Plant Sales
- Independent Study
- Off Campus Career-Related Learning Experience
- Work Experience

Plant Science Focus

Plant science is one of the fastest growing industries in Oregon agriculture. The Plant Science CAM introduces students to the basic concepts of the production, propagation, care and growing of nursery and agricultural crops. Students will learn about soils, plant propagation, plant care, plant diseases, and the proper uses of plants for restoration, landscaping, and the production of food and fiber.

Possible Careers:

With some additional training beyond high school: forest conservation worker, nursery worker, florist, garden center worker, pesticide applicator

With two years additional training: forestry technician, plant production supervisor, nursery supervisor, food inspectors, science technicians, horticultural salesman, bio-technician

With four or more years of additional training: food scientist, plant propagator, agricultural inspectors, botanist, wetland scientist, entomologist, plant geneticist

College bound students must have two years of a second language and three years of math through Algebra 2, with a “C” or better grade point average. The minimum math level for a CAM is completion of Algebra, with a “C” or better grade point average.

- Participate in career-related learning experiences as outlined in the education plan.

It is important to connect classroom learning with real life experiences in the workplace, community or school. The experiences may include job shadows, internships, mentorships (senior project), work experience, volunteer work, school businesses and field based learning. All experiences must have connections with the community and be in the student’s career or interest area.

- Meet specific Certificate of Initial Mastery (CIM) performance standards in English, mathematics and science through CIM assessment options.

Students meet specific Certificate of Initial Mastery (CIM) performance standards in English (CIM knowledge and skills test, three speaking work samples and three writing work samples), mathematics (CIM knowledge and skills test OR two CIM math problem solving work samples) and science (CIM knowledge and skills test OR CIM scientific inquiry work sample)

- Meet all requirements for a Forest Grove High School diploma.

		Class of 2010
Language Arts	4 CR	4 CR
Mathematics	2 CR	3 CR
Science	2 CR	2 CR
Health	1 CR	1 CR
Physical Education.....	1 CR	1 CR
Career Education.....	½ CR	½ CR
World Studies	1 CR	1 CR
American Studies.....	1 CR	1 CR
20 th Century American History	½ CR	0 CR
Governments	½ CR	½ CR
Economics	½ CR	½ CR
World Languages, Fine Arts, Business Education, Applied Arts..	1 CR	1 CR
Electives	9 CR	8½ CR
Total	24 CR	24 CR

Additional requirements

- Develop an education plan and build an education profile.
- Meet the performance standard for extended application through a collection of evidence.
- Demonstrate career-related knowledge and skills.
- Participate in career-related learning experiences as outlined in the education plan.
- Earn a grade of “C” or better in the four required credits in recommended focus courses and electives.
- Complete Algebra I with a grade of “C” or better (some CAMs may require a higher level of math).

Arts & Communications Academy offers three focus areas:

Communication Focus

Communications is a way for students to build a resume while working on school based enterprises such as the yearbook, newspaper, as publicity manager for a play, or by competing in speech and debate tournaments. The real life experiences available through the Communications CAM offer students the ability to explore their own areas of interest while developing practical skills.

Possible Careers:

With some additional training beyond high school: engraver, sound technician, telephone operator, lighting technician, telemarketer, audio-visual specialist

With two years additional training: journalist, poet, reporter, writer, film editor, proofreader, recording engineer, communications technician, layout artist

With four or more years of additional training: copywriter, television/recording engineer, publisher, webmaster, computer programmer, editor, translator, arts administrator, critic, historian

Performing Arts Focus

Performing Arts offers students the foundation for a wide variety of careers and post secondary education. Students can choose to concentrate on a specific instrument or try a multitude of different experiences from acting, directing, vocal music or instrumental music. Earning the Performing Arts CAM provides students with a repertoire that will serve them as they continue on stage, behind stage, or in front of a microphone.

Possible Careers:

With some additional training beyond high school: disc jockey, model, stagehand, comedian

With two years additional training: actor, dancer, musician, dance teacher, lighting technician, newscaster

With four or more years of additional training: actor, choral/instrumental director, choreographer, composer, dancer, producer, production designer, musician, artist manager

Animal Science Focus

Animal Science is designed to allow students to explore the world of animals and animal agriculture. Through the Animal Science CAM, students will learn about production systems used in agriculture. They will also be exposed to basic concepts and proficiencies in vet science, animal anatomy, animal care, animal management and much more.

Possible Careers:

With some additional training beyond high school: animal/zoo caretaker, animal breeder, animal control worker, feed store worker, animal control officer

With two years additional training: vet tech, ranch supervisor, animal trainer, animal therapist, fish & wildlife technician, ferrier

With four or more years of additional training: veterinarian, animal nutritionist, animal scientist, ranch manager, zoologist, teacher, fish & wildlife biologist

Environmental Science Focus

Environmental Science offers the student a chance to objectively analyze the world around them. Through scientific inquiry and discovery, a student will analyze commonly used resources in today's society. The Environmental Science CAM will also help students to appreciate the social, political, and economic pressures on today's natural resources.

Possible Careers:

With some additional training beyond high school: forest conservation worker, faller/bucker, choke setter, recycling technician

With two years additional training: science technician, park ranger, fish & wildlife technician, forestry technician, water & waste plant operator, forest manager

With four or more years of additional training: wildlife biologist, ecologist, marine biologist, meteorologist, physical scientist, chemist, earth scientist, geologist, forester, landscape architect

Natural Resources Academy offers five focus areas:

Agriculture Focus

Agriculture is the oldest career path and an area that is vital to Oregon's economy. Through this career path students will be allowed to explore the wide variety of careers that are available within the agriculture industry. No longer are all people involved in farming. Today's agriculture industry includes a large service sector that requires trained individuals to help develop, test, market, and service new agricultural products.

Possible Careers:

With some additional training beyond high school: farm hand, ranch hand, feed store worker, animal control officer, meat cutter

With two years additional training: veterinary technician, farm supervisor, agricultural salesman, plant production supervisor, nursery supervisor

With four or more years of additional training: wildlife biologist, veterinarian, agriculture teacher, ranch manager, farm manager, agricultural salesman, agricultural mechanic, food scientist, plant propagator

Agriculture Business Focus

The agriculture industry has changed a great deal over the past several years. Today's agriculture industry is reliant on a large group of trained business people to keep agriculture running profitably. The Agricultural Business CAM will introduce students to the basic concepts of business management, accounting, finance, price evaluation, and marketing.

Possible Careers:

With some additional training beyond high school: farm/ranch hand, nursery supervisor, ag business receptionist, produce manager

With two years additional training: farm/ranch store area supervisor, agriculture salesman, veterinary office manager, equipment service manager, grocery store manager, warehouse manager

With four or more years of additional training: farm accountant, farm store manager, nursery supply manager, natural resource/ag economist, international trade representative, public relations manager, political lobbyist

Visual Arts Focus

In Visual Arts, students have the flexibility to explore and develop specific skills or to experiment with a variety of media from drawing, painting, photography, and clay, to graphic design. Advanced students can submit portfolios to earn college credit. While working toward the Visual Arts CAM, students may produce a collection of work that can serve as an introduction to art schools, colleges and a variety of visual arts careers.

Possible Careers:

With some additional training beyond high school: floral designer, hair stylist, photographer, seamstress, photo journalist, potter, merchandise displayer

With two years additional training: artist, cartoonist, costumer, fashion designer, interior designer, make-up artist, jeweler/silversmith, lithographer, graphic artist

With four or more years of additional training: architect, art director, fashion designer, filmmaker, sculptor, videographer, literary agent, industrial designer, artist, music video producer

College bound students must have two years of a second language and three years of math through Algebra 2, with a "C" or better grade point average. The minimum math level for a CAM is completion of Algebra, with a "C" or better grade point average.

Arts & Communications Academy Guidelines

Communications Focus

Available courses *(Must complete 4 credits)*

- Advanced Computer Applications (½ CR)
- Advanced Speech (½ CR)
- Architectural Drafting I (½ CR)
- Contemporary World Issues (½ CR)
- Creative Writing (½ CR)
- Debate (1 CR)
- World Language (1 CR)
- Humanities (1 CR)
- Introduction to Speech (½ CR)
- Journalism (1 CR)
- Marketing (½ CR)
- Photography (1 CR)
- Public Speaking (1 CR)
- Web Design (½ CR)
- Writing for Publication (½ CR)
- Yearbook (OPTIMIST) (1 CR)

Capstone Experiences

(Must complete at least 1 experience below and have Arts & Communications Academy approval)

- Academy-related Senior Project
- Four (4) Public Performances
- Journalism
- Off Campus Career-Related Learning Experience
- Yearbook (OPTIMIST)
- Work Experience

Performing Arts Focus

Available courses *(Must complete 4 credits)*

- Advanced Speech (½ CR)
- Advanced Stagecraft (½ CR)
- Any Music Theory (1 CR)
- Basic Stagecraft (½ CR)
- Children's Theater (½ CR)
- Chorale (1 CR)
- Concert/Treble Choir (1 CR)
- DaCapo (1 CR)
- Drama I (½ CR)
- Drama II (½ CR)
- Drama III (½ CR)
- Guitar (1 CR)
- Humanities (1 CR)
- Introduction to Speech (½ CR)
- Jazz Band (1 CR)
- Marketing (½ CR)
- Musical Theater (½ CR)
- Percussion Ensemble (1 CR)
- Public Speaking (1 CR)
- Strings (1 CR)
- Symphonic Band (1 CR)
- Treble Choir (1 CR)
- Wind Ensemble (1 CR)
- World of Theater (½ CR)

Capstone Experiences

(Must complete at least 1 experience below and have Arts & Communications Academy approval)

- Academy-Related Senior Project
- Four (4) Public Performances
- Off Campus Career-Related Learning Experience
- Work Experience

Home Construction Focus

Available Courses *(Must complete 4 credits)*

- Advanced Building Construction (2 CR)*
- Architectural Drafting I (½ CR)
- Basic Construction (½ CR)
- Woods I (½ CR)
- Woods II (½ CR)

*Other Requirement:

- Must have passed a Geometry course

Capstone Experiences

(Must complete at least 1 experience below and have Industrial & Engineering Academy approval)

- Academy-Related Senior Project
- Complete Set of Blue Prints/Design Project
- Off Campus Career-Related Learning Experience
- Viking House
- Woods III Class Project
- Work Experience

Metals Focus

Required Courses *(Must complete 2 credits)*

- Drafting I (½ CR)
- Metals I (½ CR)
- Metals II - repeat course (1 CR)

Elective Courses *(Must complete 2 credits)*

- Applied Geometry (1 CR)
- Basic Construction (½ CR)
- Drafting II (½ CR)
- Drafting III (½ CR)
- Geometry (1 CR)
- Introduction to Auto Technology (½ CR)
- Any Physics (1 CR)

Capstone Experiences

(Must complete at least 1 experience below and have Industrial & Engineering Academy approval)

- Academy-Related Senior Project
- Metals II Class Project
- Off Campus Career-Related Learning Experience

Construction Manufacturing Focus

Required Courses (Must complete 3 credits)

- Architectural Drafting I (½ CR)
- Basic Construction (½ CR)
- Woods I (½ CR)
- Woods II (½ CR)
- Woods III (1 CR)**

**Must have passed a Geometry course

Elective Courses (Must complete 1 credit)

- | | |
|-------------------------------------|--|
| ■ Architectural Drafting II (½ CR) | ■ Drawing & Painting (½ CR) |
| ■ Architectural Drafting III (½ CR) | ■ Interior Design (½ CR) |
| ■ Basic Design (½ CR) | ■ Landscape Design & Nursery (1 CR) |
| ■ Drafting I (½ CR) | ■ Metals I (½ CR) Graphic/Commercial Art |
| ■ Drafting II (½ CR) | ■ Metals II (½ CR) |
| ■ Drafting III (½ CR) | ■ Any Physics (1 CR) |

Capstone Experiences

(Must complete at least 1 experience below and have Industrial & Engineering Academy approval)

- Academy-Related Senior Project
- Off Campus Career-Related Learning Experience
- Woods III Class Project
- Work Experience

Engineering Focus

Required Courses (Must complete 3 credits)

- Algebra II (1 CR)
- Any Chemistry (1 CR) AND Any Physics I (1 CR); OR Any Physics (1 CR) AND Drafting I & II (1 CR)

Elective Courses (Must complete 1 credit if not taken above)

- | | |
|---|---------------------------|
| ■ Advanced Building Construction (2 CR) | ■ Chemistry (1 CR) |
| ■ Architectural Drafting I (½ CR) | ■ Drafting I (½ CR) |
| ■ Architectural Drafting II (½ CR) | ■ Drafting II (½ CR) |
| ■ Architectural Drafting III (½ CR) | ■ Drafting III (½ CR) |
| ■ Auto I (1 CR) | ■ Humanities (1 CR) |
| ■ Auto II (2 CR) | ■ Metals I (½ CR) |
| ■ Basic Construction (½ CR) | ■ Metals II (½ CR) |
| | ■ World Language I (1 CR) |

Capstone Experiences

(Must complete at least 1 experience below and have Industrial & Engineering Academy approval)

- Academy-Related Senior Project
- Advanced Building Construction
- Auto Tech project
- Complete Set of Blue Prints/Design Project
- Metals II Class Project
- Off Campus Career-Related Learning Experience
- Work Experience

Visual Arts Focus

Available courses (Must complete 4 credits)

- AP Art History (1 CR)
- AP Studio Art (1 CR)
- Architectural Drafting I (½ CR)
- Architectural Drafting II (½ CR)
- Architectural Drafting III (½ CR)
- Basic Design (½ CR)
- Basic Stagecraft (½ CR)
- Clay Arts I (½ CR)
- Clay Arts II (½ CR)
- Drawing & Painting I (½ CR)
- Drawing & Painting II (½ CR)
- Geometry (1 CR) OR Applied Geometry (1 CR)
- Graphic/Commercial Art (½ CR)
- Humanities (1 CR)
- Interior Design (½ CR)
- Marketing (½ CR)
- Photography (1 CR)
- Posters and Promotions (½ CR)
- Web Design (½ CR)
- Yearbook (OPTIMIST) (1 CR)

Capstone Experiences

(Must complete at least 1 experience below and have Arts & Communications Academy approval)

- Academy-Related Senior Project
- Four (4) Public Performances
- Off Campus Career-Related Learning Experience
- Work Experience
- Yearbook (OPTIMIST)

Business Academy offers four focus areas:

Administrative Services Focus

Administrative Services exposes students to all areas of business needed for understanding how businesses operate in a free enterprise system. This includes an added emphasis in computer applications for business.

Possible Careers:

With some additional training beyond high school:

Data entry, office assistant, input typist, clerk, administrative assistant

With two years of additional training:

Office administrator, office manager, applications specialist, database processor, data entry specialist, customer service representative, home office assistant

With four or more years of college:

Information sciences manager, applications consultant, web services consultant, computer applications trainer, systems operator, operations planner, time manager, director of computing services

Culinary Arts Focus

Culinary Arts prepares students for work in the food service industry. Emphasis is on food preparation, safety, sanitation, menu planning and restaurant management, in addition to the hospitality and tourism.

Possible Careers:

With some additional training beyond high school:

Cook, waiter/waitress, food prep cook, restaurant owner

With two years of additional training:

Restaurant owner, hospital food preparation, hotel food preparation, cook, pastry chef, food writer/critic

With four or more years of college:

Nutritional planner, dietician, executive chef, food manager, food scientist, food systems manager

College bound students must have two years of a second language and three years of math through Algebra 2, with a “C” or better grade point average. The minimum math level for a CAM is completion of Algebra, with a “C” or better grade point average.

Industrial & Engineering Academy Guidelines

Automotive Focus

Required Courses (Must complete 3 credits)

- Auto Technology I (1 CR)
- Auto Technology II (2 CR)
- Introduction to Auto Technology (½ CR)
- Metals I (½ CR)

Elective Courses (Must complete 1 credit)

- Accounting I (1 CR)
- Applied Geometry (1 CR)
- Computer Applications for Business (½ CR)
- Drafting I (½ CR)
- Drafting II (½ CR)
- Drafting III (½ CR)
- Geometry (1 CR)
- Introduction to Computer Applications (½ CR)
- Metals II (½ CR)
- Any Physics (1 CR)

Capstone Experiences

(Must complete at least 1 experience below and have Industrial & Engineering Academy approval)

- Academy-Related Senior Project
- Auto Tech Project
- Off Campus Career-Related Learning Experience
- Work Experience

Construction Design (Architecture) Focus

Required Courses (Must complete 2 credits)

- Architectural Drafting I (½ CR)
- Architectural Drafting II (½ CR)
- Architectural Drafting III (½ CR)
- Woods I (½ CR)

Elective Courses (Must complete 2 credits)

- Accounting I (1 CR)
- Basic Design (½ CR)
- Basic Construction (½ CR)
- Business & Management Core (1 CR)
- Drawing & Painting (½ CR)
- Interior Design (½ CR)
- Landscape Design & Nursery (1 CR)
- Metals I (½ CR)
- Metals II (½ CR)
- Any Physics (1 CR)
- Woods II (½ CR)
- Woods III (½ CR)**

**Must have passed a Geometry course

Capstone Experiences

(Must complete at least 1 experience below and have Industrial & Engineering Academy approval)

- Academy-Related Senior Project
- Complete Set of Blue prints/Design Project
- Off Campus Career-Related Learning Experience
- Woods III Class Project
- Work Experience

Home Construction Focus

Design, supply, trades, and sales are the major categories of the construction industry, involving hundreds of skilled trades and professions to complete the finished product. A career in construction can be rewarding both financially and personally in the satisfaction one receives in creating a significant structure. Training could range from on-the-job training to an official 4-5 year apprenticeship or a 2 or 4 year college degree.

Possible Careers:

With some additional training beyond high school: concrete flatworker, construction laborer, plumber's helper, painter, drywall contractor, utility contractor, excavator, hardwood flooring contractor, materials estimator, vinyl flooring/laminate installer, insulation installer, specialty systems installer (security, sound, vacuum etc.), cabinet installer

With one to two years additional training available at PCC: surveyor, foundation contractor, framer, roofer, siding installer, landscaper, drafter, construction manager, general contractor, finish carpenter

With four or more years of additional formal apprenticeship training: tile setter, heating, ventilation and air conditioning (HVAC) technician, electrician, brick mason

Requires a four year degree: structural engineer, architect, plumber, drafter, construction manager

College bound students must have two years of a second language and three years of math through Algebra 2, with a "C" or better grade point average. The minimum math level for a CAM is completion of Algebra, with a "C" or better grade point average.

Financial Services Focus

Financial Services exposes students to all areas of business needed for understanding how businesses operate in a free enterprise system. This includes an added emphasis in accounting for those desiring a focus on financial data.

Possible Careers:

With some additional training beyond high school: Clerk, office assistant, bookkeeping assistant, bank teller

With two years of additional training:

Bookkeeper, executive assistant, accounts payable/receivable clerk, payroll assistant, accounting administrator, bank officer

With four or more years of college:

Accountant, financial manager, financial planner, investor relations, tax planner, auditor, certified public accountant (CPA), chief financial officer (CFO), bank manager, loan officer

Management/Marketing Focus

Management/Marketing exposes students to all areas of business needed for understanding how businesses operate in a free enterprise system. This includes an added emphasis in marketing for those desiring more of a promotions/advertising/sales focus.

Possible Careers:

With some additional training beyond high school: Retail sales, telemarketer, small business owner

With two years of additional training:

Customer service representative, desktop publisher, insurance agent, real estate agent, sales assistant, salesperson

With four or more years of college:

Sales manager, business executive, buyer, financial planner, manager, loan officer, chief executive officer (CEO), marketing consultant, account executive, public relations specialist, personnel director, stockbroker

Business/Management Academy Guidelines

Administrative Services Focus

Required courses (Must complete 2.5 credits)

- Computer Applications (½ CR)
- Accounting (1 CR)
- Web Page Design (½ CR)
- Marketing (½ CR)
- Adv. Computer Applications (½ CR)
- Business Management Core (1 CR)

* Business Management Core may replace first semester of Accounting I and Marketing

Electives (Must complete 1.5 credit)

- Accounting II (1 CR)
- Algebra II (1 CR)
- Advanced Speech (½ CR)
- Basic Design (½ CR)
- Basic Stagecraft (½ CR)
- Contemporary World Issues (½ CR)
- Creative Writing (½ CR)
- Graphic/Commercial Art (½ CR)
- Any Psychology (½ CR)
- Introduction to Speech (½ CR)
- Journalism (1 CR)
- Leadership (½ CR)
- Photography (1 CR)
- Posters and Promotions (½ CR)
- Any Statistics (1 CR)
- Street Law (½ CR)
- Work Experience (½ CR)
- World Languages I (1 CR)
- World Languages II (1 CR)
- Writing for Publication (½ CR)

Capstone Experiences

(Must complete at least 1 experience below and have Business Academy approval)

- Academy-Related Senior Project
- Business & Management Core
- Journalism
- Off Campus Career-Related Learning Experience
- Work Experience

Culinary Arts Focus

Required courses (Must complete 3 credits)

- Computer Applications for Business (½ CR)
- Culinary Arts I (½ CR)
- Culinary Arts II (½ CR)
- Culinary Arts III (½ CR)
- Culinary Arts IV (1 CR)

Electives (Must complete 1 credit)

- Accounting II (1 CR)
- Advanced Speech (½ CR)
- Any Chemistry (1 CR)
- Algebra II (1 CR)
- Basic Design (½ CR)
- Basic Stagecraft (½ CR)
- Contemporary World Issues (½ CR)
- Creative Writing (½ CR)
- Graphic/Commercial Art (½ CR)
- Introduction to Computer Applications (½ CR)
- Any Psychology (½ CR)
- Introduction to Speech (½ CR)
- Journalism (1 CR)
- Leadership (½ CR)
- Photography (1 CR)
- Posters and Promotions (½ CR)
- Any Statistics (1 CR)
- Street Law (½ CR)
- Web Page Design (½ CR)
- Work Experience (½ CR)
- World Languages I (1 CR)
- World Languages II (1 CR)
- Writing for Publication (½ CR)

Capstone Experiences

(Must complete at least 1 experience below and have Business Academy approval)

- Academy-Related Senior Project
- Culinary Arts IV
- Off Campus Career-Related Learning Experience
- Work Experience (Pro Start requirements w/scholarship)

Metals Focus

The Metals program specializes in welding and sheet metal techniques. The basic understanding of these areas provides the student with introductory skills that could lead into welding fabrication, metal art, auto body repair, heating and air conditioning and precision sheet metal fabrication. The student will be exposed to oxyacetylene, arc, MIG and TIG welding and basic pattern layout and sheet metal forming.

Possible Careers:

With some additional training beyond high school: welder, sheet metal worker, millwright's helper, iron worker, machine operator, line work assembler

With two years additional training: welder, fabricators, structural steel fabricator, pipe fitter, millwright, machinist, heating & air conditioning technician, CAD drafter, computerized machine operator (CNC)

With four or more years of additional training: engineer, chemical systems operator, drafter, plumber, manufacturing engineer, designer, tool & die machinist, mold maker, pattern maker, teacher

Construction Manufacturing Focus

Design, supply, trades, and sales are the major categories of the construction industry. Some careers involve the off-site construction and supply of the many components that make up a new home.

Possible Careers:

With some additional training beyond high school: construction laborer, roofer, tile setter, painter, cabinet maker, floor covering installer, furniture maker, fine woodworker, materials estimator

With two years additional training: surveyor, electrician, drafter, cabinet maker, painter and paper hanger, glazier, furniture maker, fine woodworker

With four or more years of additional training: structural engineer, architect, plumber, electrician, drafter

Engineering Focus

Engineers plan, design, construct, operate, oversee, improve and test. Some types of engineers include Aerospace, Agricultural, Chemical, Civil, Electrical and Electronic, Environmental, Industrial, Mechanical, Material, Mining, Nuclear, Petroleum, Safety, Software, Computer, Biomedical, Manufacturing and Architectural.

Possible Careers:

With some additional training beyond high school: surveying or mapping technician

With two years additional training: engineering technician, drafter, surveyor

With four or more years of additional training: engineer, architect

Industrial & Engineering Academy offers six focus areas:

Automotive Focus

The Automotive program provides a general background in automotive repair maintenance and prepares the student for further training at factory training programs (GM at PCC; Ford and Chrysler at Mt. Hood CC), professional technical schools and/or the community college in automotive maintenance or diesel repair.

Possible Careers:

With some additional training beyond high school: mechanic's assistant, detailer, small engine repair technician, auto parts counter worker

With two years additional training: automotive technician, auto body technician, aircraft mechanic, diesel service mechanic, auto mechanic

With four or more years of additional training: mechanical engineer, designer, teacher

Construction Design (Architecture) Focus

Design, supply, trades and sales are the major categories of the construction industry. The design process of the industry can encompass a broad range of technical expertise and involves various types of structures.

Possible Careers:

With some additional training beyond high school: painter, cabinet maker, materials estimator, plans review person, component designer, appraiser

With two years additional training: surveyor, drafter, cabinet maker, interior designer, house designer, plans review person, building inspector, plan designer, estimator

With four or more years of additional training: structural engineer, civil engineer, architect, drafter, interior designer

Financial Services Focus

Required courses (Must complete 2.5 credits)

- Accounting II (1 CR)
- Marketing (½ CR)
- Accounting I (1 CR)
- Business Management Core (1 CR)

**Business Management Core may replace first semester of Accounting I and Marketing*

Electives (Must complete 1.5 credit)

- Advanced Speech (½ CR)
- Algebra II (1 CR)
- Basic Design (½ CR)
- Basic Stagecraft (½ CR)
- Contemporary World Issues (½ CR)
- Creative Writing (½ CR)
- Graphic/Commercial Art (½ CR)
- Any Psychology (½ CR)
- Introduction to Speech (½ CR)
- Journalism (1 CR)
- Leadership (½ CR)
- Photography (1 CR)
- Posters and Promotions (½ CR)
- Any Statistics (1 CR)
- Street Law (½ CR)
- Work Experience (½ CR)
- World Languages I (1 CR)
- World Languages II (1 CR)
- Writing for Publication (½ CR)

Capstone Experiences

(Must complete at least 1 experience below and have Business Academy approval)

- Academy-Related Senior Project
- Business & Management Core
- Journalism
- Off Campus Career-Related Learning Experience
- Work Experience

Management/Marketing Focus

Required courses (Must complete 3 credits)

- Marketing (½ CR)
- Computer Applications (½ CR)
- Posters & Promotions (½ CR)
- Web Page Design
- Accounting I (1st semester only)
- Adv. Computer Applications (½ CR)
- Graphic Arts (½ CR)
- Business Management Core (1 CR)

**Business Management Core may replace first semester of Accounting I and Marketing*

Electives (Must complete 1 credit if not taken above)

- Accounting I (2nd semester)
- Accounting II (1 CR)
- Advanced Computer Applications (½ CR)
- Advanced Speech (½ CR)
- Algebra II (1 CR)
- Basic Design (½ CR)
- Basic Stagecraft (½ CR)
- Contemporary World Issues (½ CR)
- Creative Writing (½ CR)
- Graphic/Commercial Art (½ CR)
- Any Psychology (½ CR)
- Introduction to Speech (½ CR)
- Journalism (1 CR)
- Leadership (½ CR)
- Photography (1 CR)
- Any Statistics (1 CR)
- Street Law (½ CR)
- Work Experience (½ CR)
- World Languages I (1 CR)
- World Languages II (1 CR)

Capstone Experiences

(Must complete at least 1 experience below and have Business Academy approval)

- Academy-Related Senior Project
- Business & Management Core
- Journalism
- Off Campus Career-Related Learning Experience

Health Services Academy offers two focus areas:

Fitness and Nutrition Focus

Exploration of fitness technology takes the students into careers involving preventive health care and fitness training. A student should learn the basics of exercise and nutrition to prepare for working in both public and private facilities instructing and directing safe and effective fitness programs.

Possible Careers:

With some additional training beyond high school: fitness assistant, dietician assistant, food server, coach

With two years additional training: fitness technician, massage therapist, coach, physical therapy assistant, recreational therapist, respiratory therapist, gym owner, spa operator, personal trainer

With four or more years of additional training: dietician, physical therapist, chiropractor, teacher/coach, exercise physiologist, occupational therapist

Health Services Focus

Health Services exposes students to the exciting career possibilities in health care. From medicine to personal trainers the Health Services CAM introduces students to the skills needed to be a physician or to run their own wellness program. There is an emphasis in the areas of prevention, human anatomy and medical terminology as well as the skills needed to succeed in businesses throughout the health care field.

Possible Careers:

With some additional training beyond high school: nurse assistant, medical assistant, orderly, dental/medical secretary, dental assistant, admitting clerk, vet technician, lab assistant

With two years additional training: dental hygienist, medical records tech, diagnostic imaging tech, nurse, emergency dispatcher, fitness tech, massage therapist, dialysis technician

With four or more years of additional training: physician, forensic scientist, dietician, physical therapist, chiropractor, pharmacist, teacher/coach, exercise physiologist, physician assistant, hospital administrator

College bound students must have two years of a second language and three years of math through Algebra 2, with a “C” or better grade point average. The minimum math level for a CAM is completion of Algebra, with a “C” or better grade point average.

International Relations Focus

Required Courses (Must complete 3 credits)

- Contemporary World Issues (½ CR)
- Any Psychology (½ CR)
- World Language II (1 CR)
- World Language III (1 CR)
- AP Human Geography (1 CR)

Elective Courses (Must complete 1 credit)

- AP European History (1 CR)
- Humanities (1 CR)
- AP World History (1 CR)

Capstone Experiences

(Must complete at least 1 experience below and have Human Resources Academy approval)

- Academy-Related Senior Project
- Off Campus Career-Related Learning Experience
- Work Experience

Law Focus

Required Courses (Must complete 2 credits)

- Any Psychology (½ CR)
- Mock Trial (1 CR)
- Street Law (½ CR)

Elective Courses (Must complete 2 credits)

- Advanced Biology, Chemistry, or Physics (1 CR)
- Computer Applications (1 CR)
- Debate (1 CR)
- Introduction to Speech (½ CR)
- Journalism (1 CR)
- Leadership (1 CR)
- Public Speaking (1 CR)
- Any Statistics (1 CR)
- Weight Training (½ CR)
- World Language II (1 CR)
- AP Human Geography
- AP World History (1 CR)
- AP Government & Politics (1 CR)
- AP U.S. History (1 CR)

Capstone Experiences

(Must complete at least 1 experience below and have Human Resources Academy approval)

- Academy-Related Senior Project
- Mock Trial

Human Resources Academy Guidelines

Early Childhood Education Focus

Required Courses *(Must complete 2 credits)*

- Child Care II (1 CR)
- Introduction to Child Care (½ CR)
- Any Psychology (½ CR)
- Introduction to Speech (½ CR)
- Child Care I (½ CR)

Elective Courses *(Must complete 2 additional credits if not taken above)*

- | | |
|---|---------------------------------|
| ■ Adaptive P.E. Tutor (1 CR) | ■ Any Psychology (½ CR) |
| ■ Advanced Computer Applications (½ CR) | ■ Introduction to Speech (½ CR) |
| ■ Child Care II (1 CR) | ■ Leadership (1 CR) |
| ■ Computer Applications for Business (½ CR) | ■ Posters and Promotions (½ CR) |
| ■ Introduction to Child Care (½ CR) | ■ Child Care I (½ CR) |
| ■ Elementary Peer Tutor (1 CR) | ■ Street Law (½ CR) |
| | ■ World Language I (1 CR) |

Capstone Experiences

(Must complete at least 1 experience below and have Human Resources Academy approval)

- Academy-Related Senior Project
- Child Care II
- Off Campus Career-Related Learning Experience
- Work Experience

Firefighting Focus

Required Courses *(Must complete 2 credits)*

- Firefighting I (1 CR)
- Any Chemistry (1 CR)

Elective Courses *(Must complete 2 credits)*

- Advanced Biology (1 CR)
- Advanced Building Construction (2 CR)
- Anatomy & Physiology (1 CR)
- Any Chemistry (1 or 2 CR)
- Auto Technology II (2 CR)
- Health Occupations (1 CR)
- Any Psychology (½ CR)
- Medical Terminology (1 CR)
- Physics (1 CR)
- Weight Training OR Elective PE (½ CR)
- World Language I (1 CR) (Spanish Preferred)

Capstone Experiences

(Must complete at least 1 experience below and have Human Resources Academy approval)

- Academy-Related Senior Project
- Advanced Building Construction
- Health Occupations
- Off Campus Career-Related Learning Experience
- Work Experience

Health Services Academy Guidelines

Fitness & Nutrition Focus

Required Courses *(Must complete 2 credits)*

- Culinary Arts I (½ CR)
- Elective PE (½ CR)

Elective Courses *(Must complete 2 credits)*

- Algebra II (1 CR)
- Adaptive P.E. Tutor (1 CR)
- AP Biology (1 CR)
- Anatomy & Physiology (1 CR)
- Chemistry (1 CR)
- Computer Applications for Business (1 CR)
- Creative Writing (1 CR)
- Culinary Arts II (½ CR)
- Culinary Arts IV (1 CR)

Capstone Experiences

(Must complete at least 1 experience below and have Health Services Academy approval)

- Academy-Related Senior Project
- Culinary Arts IV
- Health Occupations
- Off Campus Career-Related Learning Experience
- Volunteer Experience
- Work Experience

- Health Occupations (1 CR)
- Weight Training (½ CR)

- Any Psychology (½ CR)
- Introduction to Speech (1 CR)
- Marketing (½ CR)
- Medical Terminology (1 CR)
- Physics (1 CR)
- Student Trainer (½ CR)
- Web Page Design (1 CR)
- World Language II (1 CR)

Health Services Focus

Required courses *(Must complete 3 credits)*

- Anatomy & Physiology (1 CR)
- Health Occupations (1 CR)
- Medical Terminology (1 CR)

Elective Courses *(Must complete 1 credit if not taken above)*

- | | |
|---|------------------------------------|
| ■ Adaptive P.E. Tutor (1 CR) | ■ Culinary Arts IV (1 CR) |
| ■ AP Biology (1 CR) | ■ Elective PE (½ CR) |
| ■ Advanced Computer Applications (½ CR) | ■ Introduction to Child Care(½ CR) |
| ■ Anatomy & Physiology (1 CR) | ■ Health Occupations (1 CR) |
| ■ Animal Science (½ CR) | ■ Any Psychology (½ CR) |
| ■ Any Geometry (1 CR) | ■ Medical Terminology (1 CR) |
| ■ Athletic Trainer (½ CR) | ■ Any Physics (1 CR) |
| ■ Chemistry (1 CR) or AP Chemistry (1 CR) | ■ Speech (½ CR) |
| ■ Child Care II (1 CR) | ■ Street Law (½ CR) |
| ■ Computer App. For Business Word (½ CR) | ■ Student Trainer (½ CR) |
| ■ Creative Writing (½ CR) | ■ Weight Training (½ CR) |
| ■ Culinary Arts III (½ CR) | ■ World Language II (1 CR) |

Capstone Experiences

(Must complete at least 1 experience below and have Health Services Academy approval)

- Academy-Related Senior Project
- Child Care II
- Culinary Arts IV
- Health Occupations
- Off Campus Career-Related Learning Experience
- Volunteer Experience
- Work Experience

Human Resources Academy offers four focus areas:

Early Childhood Education Focus

Early Childhood Education gives numerous opportunities for students to work with youth in our community, while expanding their academic foundation for a career in education.

Possible Careers:

With some additional training beyond high school: camp counselor, nanny, recreation worker, teacher assistant

With two years additional training: business nanny, camp director, child care director, child care worker, preschool teacher, library technician, youth pastor

With four or more years of additional training: child care director, social worker, elementary teacher, child director specialist, family counselor/educator, school administrator, librarian, child psychologist

Firefighting Focus

The firefighting program is designed to provide basic firefighting skills and first responder medical training. The CAM in firefighting gives numerous opportunities for students to work in our community, state and at the federal level.

With some additional training beyond high school: fire Inspector, basic emergency medical technician

With two years additional training: firefighter, firefighter supervisor, fire safety technician, emergency medical technician paramedic, public safety officer, aircraft crash and rescue, insurance fire investigator

With four or more years of additional training: fire chief, fire protection engineer, emergency or disaster planner

International Relations Focus

International Relations offers students the basis for a wide variety of careers and post secondary education. Students can choose to become fluent in a multitude of world languages and concentrate on an area of interest from business to journalism. The International Relations CAM can open the door to our interdependent world.

With two years additional training: translator

With four or more years of additional training: government service, economist, teacher, public affairs specialist, historian, diplomatic corp, sociologist, journalist, international business, international marketing/trade, attorney

Law Focus

Whether in the near future or after post secondary education, Law offers students an opportunity to begin to prepare for a career in law. Through an in depth examination of our adversary process, students will have a foundation for competing in the market. Earning a Law CAM opens countless opportunities for students within the field of law.

Possible Careers:

With some additional training beyond high school: compliance inspector, court clerk, corrections officer, security guard, military personnel, receptionist

With two years additional training: bailiff, detective, paralegal, patrol officer, police officer, private investigator, court reporter

With four or more years of additional training: attorney, FBI agent, judge, parole/probation officer, special agent, court administrator

College bound students must have two years of a second language and three years of math through Algebra 2, with a “C” or better grade point average. The minimum math level for a CAM is completion of Algebra, with a “C” or better grade point average.