

**2007-2008
Brunswick High School
Course of Study**



Brunswick High School Brunswick, Maine

*Accredited by the
New England Association of
Schools and Colleges, Inc.
and
The State Of Maine*

CAREER PATHWAYS

Career Pathways is a system that creates a well-marked "pathway" of sequenced courses which provide both focus and direction to a student's learning experience. Career Pathways connects students to post-secondary education and the world of work, prepares students for a goal-oriented future and provides a system of informed choices for each student.

As students develop a high school/post-secondary plan and portfolio they select a broad Career Pathway

- as a cooperative effort involving students, parents, counselors and teachers.
- with consideration of their interests, aptitudes, and goals.
- with the knowledge that a pathway system allows flexibility for them to change their mind and to plan accordingly.

Career Pathways group the high school curriculum into four broad areas:

- ❖ *Arts, Media, Humanities and Communication*
- ❖ *Information, Marketing and Business*
- ❖ *Science, Technology and Engineering*
- ❖ *Health and Human Services*

Students choose a Career Pathway which best reflects their current interests. Included in this plan is a related educational goal, which leads to a four-year college, two-year or technical college, on-the-job training or employment. Plans are reviewed each year (or more often if necessary) and adjustments made according to changing student interests and goals. A Career Pathways system gives focus and a framework to student planning; yet, offers some flexibility in taking courses across pathways and keeping a variety of educational options open.

HEAD START ON HIGHER EDUCATION

There are opportunities to begin college courses and earn credit while still in high school.

Advanced Placement courses prepare high school students to take the College Board Advanced Placement Tests. A qualifying score on a test can enable a student to waive introductory college courses and earn credit at the college level.

Articulated Courses with post-secondary institutions may enable students to enter specific programs with technical/vocational or advanced placement credit. Students may complete a degree in a shorter time or develop a higher level of skill by skipping introductory courses.

***** A listing of Brunswick High School courses that may be articulated is on file in the counseling office.

Early Study allows high school students to attend classes at local technical colleges or universities. Students pay their own tuition and may earn college credit.

Pre-Apprenticeship provides after school paid employment to high school juniors and seniors that may lead to registered apprenticeships and technical college enrollment.

Other Educational Options Approved options are available for earning additional high school credit outside of the traditional high school setting. For example, Bowdoin College may offer opportunities for some students who have exhausted options at Brunswick High School at no charge to the student. See your counselor for further information.

CAREER EXPLORATION IN HIGH SCHOOL

Maine Vocational Region #10 provides intensive career exposure, hands-on training and connections with local employers. When students attend MVR #10 and complete Recommended Prerequisite math, science, English, and other classes, they may enter two or four-year colleges, pursue an apprenticeship, or begin full-time employment.

Job Shadowing links students with career interests in the community. Provided in cooperation with local businesses, job shadows are short-term experiences that allow students to see first-hand what is required in a variety of careers.

Student Internship provides students with an opportunity to spend several days or weeks at worksites related to their career interests.

Work Experience allows students to combine classroom instruction with part-time employment. Students may earn work-based course credit.

Service Learning provides students with the opportunity to combine school-based learning with work-based activities in a community agency or project. The student may participate as a member of a work team with specific goals and activities to be accomplished.

EDUCATIONAL GOALS

Three educational goals exist for each of the four broad career paths.

ENTRY (4+)

4 years of high school + on-the job training or some type of post-secondary training or education.

The Entry goal is a four-year program of study designed for students who plan to work immediately after high school. Students are required to take classes in the core curriculum, then may choose electives based upon career/personal interests. Their program of study may also include Maine Vocational Region #10. While the student goal may be employment following graduation, they are encouraged to pursue a challenging academic program so that a variety of post-secondary as well as career options may be available to them in the future.

TECHNICAL (4+2 OR 4+2+2)

4 years of high school + 2 years of technical college/other 2 year college to complete an Associate Degree.

4 years of high school + 2 years of technical college/other 2 year college to complete an Associate Degree + 2 more years to complete a 4-year Bachelor Degree.

The Technical goal leads students through a four-year high school program that prepares them for entrance to a two-year Associate Degree program (4+2) as well as some four-year programs (4+4). Through a sequence of academic and technical courses that may include programs at Maine Vocational Region #10, students are prepared for both technical college and the world of work. As with the Professional Goal, students may continue beyond technical college to complete a four-year Bachelor Degree program (4+2+2).

PROFESSIONAL (4+4 OR 4+2+2)

4 years of high school + 4 years of college to complete a 4-year Bachelor Degree.

4 years of high school + 2 years of technical college/other 2-year Associate Degree + 2 more years to complete a 4 year Bachelor Degree.

The Professional goal leads students through a four-year high school program that prepares them for entrance to a Bachelor Degree program. This can be accomplished by four years of high school followed by a four-year college program (4+4) or by four years of high school followed by a two-year Associate Degree program and two more years to complete a Bachelor Degree program (4+2+2).

**ARTS, MEDIA, HUMANITIES AND COMMUNICATION
ENTRY (4+)**

Related Careers: (examples)

Audio-Visual Assistant	Personal and Home Health Aide
Customer Service Clerk	Nurses Aide
Cosmetologist	Recreation Worker
Library Assistant	Sales Clerk
Floral Designer	

4 YEAR PLAN (example)

Grade 12	Prep Eng.	Alg. II Geometry Topics of Alg & Geom	Physics Specialty Elec.	Soc. St. Elec. Specialty Elec.	Specialty Elec. Foreign Language	Specialty Elec.	Specialty Elec.	Specialty Elec.
Grade 11	Prep Eng.	Algebra II Geometry	Chemistry Specialty Elec.	US Hist.	Specialty Elec. Foreign Language	Specialty Elec.	Specialty Elec.	Specialty Elec.
Grade 10	Prep Eng.	Geometry Alg. I Alg. I Pt II, Topics of Alg & Geom Trans. Math	Biology	World Hist.	Foreign Language or Elec.	Physical Ed. Computer App.	Specialty Elec. Fine Arts Sophomore Seminar	Specialty Elec.
Grade 9	Prep Eng.	Algebra I Alg I Pt. I Trans. Math	Geophysical Science	Geography	Foreign Language or Elec.	Physical Ed/ Health	Specialty Elec. Freshman Seminar	Specialty Elec.

Specialty Electives: (examples)

Art	Theatre Arts	Creative Clothing
Band	Journalism	Foods
Chorus	Business Math A	International Cuisine
Computer Programming	Business Math B	Housing Design
Current Events I, II	Musical Theatre	Commercial Art (MVR #10)
Drafting	Photography	Early Childhood Ed (MVR #10)
Archaeology	Graphic Design	Health Occ. (MVR #10)
Cold War	Fiber Arts	Early Childhood Ed.
African/American History	Parenting I, II	

** in addition to specialty electives, other electives may also be taken

**ARTS, MEDIA, HUMANITIES AND COMMUNICATION
TECHNICAL (4+2 OR 4+2+2)**

Related Careers: (examples)

Actor	Paralegal
Child Care Specialist	Photographer
Clothes Designer	Radio Broadcaster
Camera Technician	
Information Specialist	

4 YEAR PLAN (example)

Grade 12	Acad. Eng. Prep Eng.	Algebra II Geometry Pre-Calc. Adv. Math	Physics	Social Studies Electives	Specialty Elec.	Specialty Elec.	Specialty Elec.	Specialty Elec.
Grade 11	Acad. Eng. Prep Eng.	Algebra II Geometry	Chemistry	US History	Foreign Language or Elec.	Specialty Elec.	Specialty Elec.	Specialty Elec.
Grade 10	Acad. Eng. Prep Eng.	Geometry Alg I Alg I Pt II Topics of Alg/Geom	Biology	World Hist. Europ. Hist.	Foreign Language or Elec.	Physical Ed. Computer App.	Specialty Elec. Fine Arts Sophomore Seminar	Specialty Elec.
Grade 9	Acad. Eng. Prep Eng.	Alg I Alg I Pt. I Trans. Math	Geophysic. Science	Ancient Med. History Geography	Foreign Language or Elec	Physical Ed./ Health	Specialty Elec. Fresh. Seminar	Specialty Elec.

Specialty Electives: (examples)

Drafting	Speech & Debate	Business Math A
Band	Creative Writing	Business Math B
Chorus	Journalism	Graphic Design
Computer Programming	Problem Solving	Commercial Art (MVR #10)
Sociology	Psychology	Early Childhood Ed (MVR #10)
The Cold War	African/American History	Health Occ. (MVR #10)
Current Events I, II	Archaeology	Parenting I, II
Foods	International Cuisine	Fiber Arts
Early Childhood Ed.	Creative Clothing I, II	Art

* In addition to specialty electives other electives may also be taken

ARTS, MEDIA, HUMANITIES AND COMMUNICATION PROFESSIONAL (4+4 or 4+2+2)

Related Careers: (examples)

Archivist	Marine Biologist
Architect	Musician
Counselor	Psychologist
Diplomatic Corps	Public Relations
Editor/Publisher	Reporter
Fashion Designer	Social Worker
Graphic Designer	Sociologist
Interior Designer	Speech Therapist
International Business	Teacher
Interpreter/Translator	Technical Writer

4 YEAR PLAN (example)

Grade 12	AP English Acad. Eng.	AP Calc. Pre-Calc. Adv. Math Algebra II	AP Biology Physics, Hon. Chem Physics. Env Geo.	Social Studies Elective	Foreign Language or Specialty Elec.	Specialty Elec.	Specialty Elec.	Specialty Elec.
Grade 11	Honors English Acad. Eng.	Pre-Calc. Math A, B C Algebra II Geometry	Chem., Hon., Chem Physics, Hon. Physics Env. Geo.	AP US History US History	Foreign Language or Specialty Elec.	Specialty Elec.	Specialty Elec.	Specialty Elec.
Grade 10	Honors English Acad. Eng.	Algebra II HonGeometry/Algebra II	Biology	Eur. Hist.	Foreign Language	Physical Ed. Computer App.	Specialty Elec. Fine Arts Sophomore Seminar	Specialty Elec.
Grade 9	Honors English Acad. Eng.	Algebra I Geometry HonGeometry/Algebra II	Geophys. Science	Ancient Med. History Geography	Foreign Language	Physical Ed./ Health	Specialty Elec. Freshman Seminar	Specialty Elec.

Specialty Electives: (examples)

Art	Creative Writing	Problem Solving
Band	Journalism	Applied Math/Algebra
Chorus	Speech & Debate	AP European History
Computer Programming	Theatre Arts	Psychology
Current Events I, II	Humanities	African/American History
Archaeology	The Cold War	Sociology
Current Events	Graphic Design	Intro to Woods
Housing Designs	Creative Clothing I, II	Fiber Arts
Foods	International Cuisine	Drafting

* In addition to specialty electives other electives may also be taken

** Recommended - at least 2 years of the same foreign language

**BUSINESS, INFORMATION, MARKETING
ENTRY (4+)**

Related Careers: (examples)

Bank Teller	Ticket Agent
Cashier	Secretary
Office Clerk	Receptionist
Insurance Clerk	
Bill and Account Collector	

4 YEAR PLAN (example)

Grade 12	Prep Eng.	Algebra II Geometry	Physics Specialty Elec.	Soc. St. Elec. Specialty Elec.	Specialty Elec.	Specialty Elec.	Specialty Elec.	Specialty Elec.
Grade 11	Prep Eng.	Algebra II Geometry	Chemistry Specialty Elec.	US History	Specialty Elec.	Specialty Elec.	Specialty Elec.	Specialty Elec.
Grade 10	Prep Eng.	Geometry Alg. I Alg. I Pt II, Trans. Math	Biology	World Hist.	Foreign Language or Elec.	Physical Ed. Computer App.	Specialty Elec. Fine Arts Sophomore Seminar	Specialty Elec.
Grade 9	Prep Eng.	Algebra I Alg I Pt. I Trans. Math	Geophysical Science	Geography	Foreign Language or Elec.	Physical Ed./ Health	Specialty Elec. Freshman Seminar	Specialty Elec.

Specialty Electives: (examples)

Accounting I	Business Math A	Life Management Skills
Accounting II (MVR #10)	Business Math B	Journalism
Business Adm. (MVR #10)	Graphic Design	Public Speaking
Marketing (MVR #10)	Word Processing	Speech & Debate
Food Trades (MVR 10)	Desktop Publishing	Dynamics of the Stock Market
REAL (MVR #10)	Business Management	
Mass Production		

* In addition to specialty electives other electives may also be taken

**BUSINESS, INFORMATION, MARKETING
TECHNICAL (4+2 OR 4+2+2)**

Related Careers: (examples)

Accounting Clerk	Computer Operator
Bank Teller	Hotel/Motel Manager
Administrative Assistant	Medical Records Technician
Secretary	Purchasing Manager
Court Clerk	Buyer
Sales Manager	Travel Agent
Computer Technician	Accounting

4 YEAR PLAN (example)

Grade 12	Acad. Eng Prep Eng	Algebra II Geometry Pre-Calc. Adv. Math	Physics	Social Studies Electives	Specialty Elec.	Specialty Elec.	Specialty Elec.	Specialty Elec.
Grade 11	Acad. Eng Prep Eng	Algebra II Geometry	Chemistry	US History	Specialty Elec.	Specialty Elec.	Specialty Elec.	Specialty Elec.
Grade 10	Acad. Eng Prep Eng	Geometry Alg I Alg I Pt II	Biology	World Hist. Europ. Hist.	Foreign Language or Elec.	Physical Ed. Computer App.	Specialty Elec. Fine Arts Sophomore Seminar	Specialty Elec.
Grade 9	Acad. Eng Prep Eng	Alg I Alg I Pt. I Trans. Math	Geophysical Science	Ancient Med. History Geography	Foreign Language or Elec.	Physical Ed./ Health	Specialty Elec. Freshman Seminar	Specialty Elec.

Specialty Electives: (examples)

Art	Business Math A	Word Processing
Accounting I	Business Math B	Desktop Publishing
Accounting II (MVR #10)	Graphic Design	Business Management
Marketing (MVR #10)	Computer Programming	Dynamics of the Stock Market
*Business Adm. (MVR #10)	Problem Solving	Foods
Food Trades (MVR #10)	REAL (MVR #10)	International Cuisine
Cabinetmaking	Intro to Metals	Advanced Metals
Mass Production	Archaeology	African/American Studies
Cold War		

* In addition to specialty electives other electives may also be taken

**BUSINESS, INFORMATION, MARKETING
PROFESSIONAL (4+4 or 4+2+2)**

Related Careers: (examples)

Accountant	Entrepreneur
Business Manager	
Purchasing Agent	
Actuary	
Computer Programmer	
Computer Analyst	
Financial Manager	
Stockbroker	
Systems Analyst	

4 YEAR PLAN (example)

Grade 12	AP English Acad. Eng.	AP Calc. Calc. Pre-Calc. Adv. Math A, B, C Algebra II	AP Biology Physics Chemistry Env. Geosci.	Social Studies Elective	Foreign Language or Specialty Elec.	Specialty Elec.	Specialty Elec.	Specialty Elec.
Grade 11	Honors English Acad. Eng.	Pre-Calc. Math A, B C Algebra II	Chemistry Physics Env. Geosci.	AP US History US History	Foreign Language or Specialty Elec.	Specialty Elec.	Specialty Elec.	Specialty Elec.
Grade 10	Honors English Acad. Eng.	Algebra II Hon. Geom/ Algebra II	Biology	Eur. Hist.	Foreign Language	Physical Ed. Computer App.	Specialty Elec. Fine Arts Sophomore Seminar	Specialty Elec.
Grade 9	Honors English Acad. Eng.	Algebra I Geometry Hon. Geom/ Algebra II	Geophysical Science.	Ancient Med. History Geography	Foreign Language	Physical Ed./ Health	Specialty Elec. Freshman Seminar	Specialty Elec.

Specialty Electives: (examples)

Accounting I	Journalism	Applied Math/Algebra
Accounting II (MVR #10)	Public Speaking	Graphic Design
Business Adm. (MVR #10)	Speech & Debate	Computer Programming
Marketing (MVR #10)	Problem Solving	Mass Production
Drafting	Humanities	The Cold War
AP European History	Sociology	Psychology

* In addition to specialty electives other electives may also be taken

*Recommended - at least 2 years of the same foreign language

ENGINEERING, SCIENCE, TECHNOLOGY ENTRY (4+)

Related Careers: (examples)

Carpenter	General Contractor
Cook	Pipe Fitter
Fish Hatchery Worker	Electrician
Arborist	Heating/Air Conditioning Repair
Landscape Gardener	Welder
Mason	Computer Operator
Truck Driver	Vending Machine Repairer

4 YEAR PLAN (example)

Grade 12	Prep Eng.	Algebra II Geometry	Physics Specialty Elec.	Soc. St. Elec. Specialty Elec.	Specialty Elec.	Specialty Elec.	Specialty Elec.	Specialty Elec.
Grade 11	Prep Eng.	Algebra II Geometry	Chemistry Specialty Elec.	US History	Specialty Elec.	Specialty Elec.	Specialty Elec.	Specialty Elec.
Grade 10	Prep Eng.	Geometry Alg. I Alg. I Pt II, Trans. Math	Biology	World Hist.	Foreign Language or Elective	Physical Ed. Computer App.	Specialty Elec. Fine Arts Sophomore Seminar	Specialty Elec.
Grade 9	Prep Eng.	Algebra I Alg I Pt. I Trans. Math	Geophysical Science	Geography	Foreign Language or Elective	Physical Ed./ Health	Specialty Elec. Freshman Seminar	Specialty Elec.

Specialty Electives: (examples)

Intro Woods	Physical Geology	Metal Fabrication (MRV #10)
Intro Metals	Environmental Studies	Bldg. Trades (MVR #10)
Intro Drafting	Business Math A	Outdoor Power (MVR #10)
Mass Production	Business Math B	Auto Collision Repair (MVR #10)
Cabinetmaking	Arch. Drawing	Auto Technology (MVR #10)
Basic House Construction	Machine Drawing	Graphic Design
Advanced Metals	Topics of Technology	Cold War
Foods	Current Events I, II	African American History
International Cuisine	Archaeology	Horticulture (MVR #10)

* In addition to specialty electives other electives may also be taken

ENGINEERING, SCIENCE, TECHNOLOGY TECHNICAL (4+2 OR 4+2+2)

Related Careers: (examples)

Auto Body Mechanic	Diesel Engine Mechanic
Auto Mechanic	Computer Aided Drafting Tech
Computer Technician	Web Site Developer
Landscape Manager	Construction Manager
Floral Designer	Computer Repair Technician
Engineering Technician	
Broadcast/Sound Technician	

4 YEAR PLAN (example)

Grade 12	Acad. Eng Prep Eng	Algebra II Geometry Pre-Calc. Adv. Math	Physics	Social Studies Electives	Specialty Elec.	Specialty Elec.	Specialty Elec.	Specialty Elec.
Grade 11	Acad. Eng Prep Eng	Algebra II Geometry	Chemistry	US History	Specialty Elec.	Specialty Elec.	Specialty Elec.	Specialty Elec.
Grade 10	Acad. Eng Prep Eng	Geometry Alg I Alg I Pt II	Biology	World Hist. Eur. Hist.	Foreign Language or Elective	Physical Ed. Computer App.	Specialty Elec. Fine Arts Sophomore Seminar	Specialty Elec.
Grade 9	Acad. Eng Prep Eng	Alg I Alg I Pt. I Trans.Math	Geophysical Science	Ancient Med. History Geography	Foreign Language or Elective	Physical Ed./ Health	Specialty Elec. Freshman Seminar	Specialty Elec.

Specialty Electives: (examples)

Intro Woods	Physical Geology	Metal Fabrication (MRV #10)
Intro Metals	Environmental Geoscience	Bldg. Trades (MVR #10)
Intro Drafting	Business Math A	Outdoor Power (MVR #10)
Mass Production	Business Math B	Auto Collision Repair (MVR #10)
Cabinetmaking	Arch. Drawing	Auto Technology (MVR #10)
Basic House Const.	Machine Drawing	Horticulture (MVR #10)
Advanced Metals	The Cold War	African American History
Graphic Design	Sociology	Current Events I, II

* In addition to specialty electives other electives may also be taken

ENGINEERING, SCIENCE, & TECHNOLOGY PROFESSIONAL (4+4 or 4+2+2)

Related Careers: (examples)

Biologist	Engineer- Agricultural, Ceramic, Civil, Computer, Electrical, Environmental, Mechanical, Nuclear, Chemical, Marine
Marine Biologist	Statistician
Chemist	Biochemist
Physicist	Forester
Pilot	Horticulturist
Software Designer	Robotics Engineer
Computer Systems Analyst	

4 YEAR PLAN (example)

Grade 12	AP English Acad. Eng	AP Calc Calc. Pre-Calc. Adv. Math A, B, C Algebra II	AP Biology Physics, Hon.	Social Studies Elective	Foreign Language or Specialty Elec.	Specialty Elec.	Specialty Elec.	Specialty Elec.
Grade 11	Honors English Acad. Eng.	Pre-Calc. Math A, B C Algebra II	Chem., Hon. Chem. Physics, Hon. Physics	AP US History US History	Foreign Language or Specialty Elec.	Specialty Elec.	Specialty Elec.	Specialty Elec.
Grade 10	Honors English Acad. Eng.	Algebra II Hon. Geom/ Algebra II	Biology	Eur. Hist.	Foreign Language	Physical Ed. Computer App.	Specialty Elec. Fine Arts Sophomore Seminar	Specialty Elec.
Grade 9	Honors English Acad. Eng.	Algebra I. Geometry Hon. Geom/ Algebra II	Geophysical Science	Ancient Med. History Geography	Foreign Language	Physical Ed./ Health	Specialty Elec. Freshman Seminar	Specialty Elec.

Specialty Electives: (examples)

Computer Programming	Problem Solving	Intro to Metals
Drafting	Applied Math/Algebra	Advanced Metals
AP European History	Humanities	Sociology
Environmental Geoscience	Graphic Design	Psychology
	Intro. to Woods	Horticulture (MVR #10)

* In addition to specialty electives other electives may also be taken

** Recommended - at least 2 years of the same foreign language