



BAYONNE
HIGH
SCHOOL



VOCATIONAL AND CAREER STUDIES COURSE OFFERINGS

DEPARTMENTS

- Building Trades
- Auto/Tech.
- Culinary
- Health Sciences
- Cosmetology
- Fashion

Your Career
Begins Here

2024-2025

The Vocational and Career Studies Program at The Bayonne High School:

The Vocational and Career Studies Program at the Bayonne High School offers students exciting and lucrative hands on training in career paths that can begin directly after High School Graduation.

This unique opportunity to gain real world training specific to their interests, puts students at a clear and measurable advantage as they enter the workforce.

Students in Bayonne who enter into the Vocational and Career Studies Program are given the unique opportunity not only to study their area of interest, but also begin the transition into the career of their choosing through the Career Studies Program.

“Hours Completed” towards professional licensure requirements, preparatory study and test administration for state licensure and real life business contacts through trade specific internship opportunities are all available to students to complete the course curriculum in their concentrations.

COURSES BY DEPARTMENT

"VOCATIONAL EDUCATION PROGRAMS HAVE MADE A REAL DIFFERENCE IN THE LIVES OF COUNTLESS YOUNG PEOPLE NATIONWIDE; THEY BUILD SELF-CONFIDENCE AND LEADERSHIP SKILLS BY ALLOWING STUDENTS TO UTILIZE THEIR UNIQUE GIFTS AND TALENTS."
CONRAD BURNS

01

BUILDING TRADES

02

AUTO/TECH

03

CULINARY

04

HEALTH SCIENCES

05

IN VOGUE-COSMETOLOGY

06

FASHION

Building Trades Concentration

9th Grade	10th Grade	11th Grade	12th Grade
Building Trades Cycle	Plumbing/ Welding or Carpentry 1	Plumbing/ Welding or Carpentry 2	Plumbing/ Welding or Carpentry 3
Math	Math	Math	Elective of Choice or Internship
English	English	English	English
History	History	History	Elective Choice or Internship
Elective Choice	Elective Choice	Elective Choice	Elective Choice or Internship
Science	Science	Science	Elective Choice or Internship
World Language	World Language	Elective Choice	Elective Choice or Internship
PE	PE	PE	PE

Building Trades

Eligible Grade(s) Class

9,10 CONSTRUCTION TRADES CYCLE

St. Francis of Assisi

Pre-requisite(s)

None

The Introduction to Construction Trades Course is a full year survey course that offers interested students a glimpse into four key trades while providing them with a foundational understanding of the skills necessary for success!

1. Introduction to Carpentry

Introductory one marking period course. This emerging program is designed to prepare students to enter the construction industry with a variety of marketable skills. The Construction Trades Technology Program teaches energy conservation practices, renewable resource products and a strong influence on residential and commercial carpentry.

* Personal Financial Literacy embedded in the course.

2. Introduction to Electricity

one marking period course. Preparing students to enter the industry as an electrical apprentice in a variety of settings, this program teaches residential, commercial, and industrial wiring consistent with the National Electrical Code.

* Personal Financial Literacy embedded in the course.

3. Introduction to Plumbing

Introductory one marking period course. This one marking period course introduces students to the plumbing trade. Students will learn plumbing safety, basic piping, plumbing materials/equipment and installation of plumbing fixtures.

* Personal Financial Literacy embedded in the course.

4. Introduction to Welding

Introductory one marking period course. Students in this program are instructed in the concepts of joining metal through a variety of welding techniques. With an emphasis on safety, theory, and practice, this course covers the permanent bond formed when heat is applied to metal pieces to join, melt, and fuse them.

* Personal Financial Literacy embedded in the course.

"A man who works with his hands is a laborer; a man who works with his hands and his brain is a craftsman; but a man who works with his hands and his brain and his heart is an artist."

Building Trades

Eligible Grade(s) Class

Pre-requisite(s)

10,11 CARPENTRY I

This course includes a review of the Carpentry Building Trades Cycle curriculum while introducing students to the scope of a Carpentry Concentration. With an emphasis on learning shop and personal safety, and selections and use of hand tools and machines; also, radial saw, circular saw, jointer, planer, mortise, et. al.

Construction Trades
Cycle

11,12 CARPENTRY II

This course includes a review of the previous grade course content with an increased emphasis on shop and personal safety. Students will further develop their skills and techniques as applied to various learning situations and activities.

Carpentry I

12 CARPENTRY III

This course includes a review of the previous grade content and shop and personal safety. Emphasis in this course centers on the trade area of carpentry as it relates to the industrial building trades. The students will learn and develop their skills and competencies constructing foundations, rough framing, roof framing, exterior and interior finish on a modified scaled model house, power hand tools and equipment. The student will learn how to do estimating that will involve material cost, labor cost and general expense.

Carpentry II

"It requires a genuine fight to produce one well designed object of relatively permanent value."

George Nakashima

Building Trades

"I think it's a real shame so many schools have taken out the hands-on classes. Art, music, auto mechanics, cooking, sewing, these are all things that can turn into jobs. You know, wood shop, steel shop, welding. These are all things that can turn into great careers, get kids interested. Things they can do with other students."

Temple Grandin

Eligible Grade(s) Class

Pre-requisite(s)

10,11 PLUMBING 1

This course introduces students to the areas of study and skills necessary to be successful in the plumbing industry. Students will learn how to measure, cut, and assemble various piping materials, how to design and install plumbing pipes and fixtures, and plumbing code.

Construction Trades
Cycle

10,11 PLUMBING 2

This course is a continuation of the areas of study covered in plumbing 1. While in Plumbing 2, students will have the opportunity to hone the skills necessary to successfully apply for a position in the plumbing industry. Students will take responsibility for projects including repairs, defect fixes and both behind wall and decorative installations.

Plumbing 1

12 PLUMBING 3

This course continues to build and sharpen the skills necessary to successfully apply for a position in the plumbing industry. Students will work in both residential and commercial capacities while learning about both advanced plumbing concepts and the administrative responsibilities of estimates and sourcing materials. Students will also be given the opportunity to apply with local plumbers in apprentice internships for credit.

Plumbing II

10, 11 WELDING I

This course continues to build on the foundational knowledge gained in the Construction Trades Cycle Welding component while providing broad spectrum knowledge of what it takes to be successful in the lucrative welding industry. Safety precautions are a primary component while rudimentary welding skills are also taught.

Construction Trades
Cycle

11, 12 WELDING II

Activities of this course include instruction in shop and personal safety, personal protection devices, care, selection and use of tools, electric arc welding on the flat, vertical and horizontal positions using various electrodes.

Welding 1

12 WELDING III

Instruction in this advanced course includes shop and personal safety, personal protection devices, electric arc welding in the overhead, flat, vertical and horizontal positions on flat and pipe stock. Student activities include: TIG and MIG welding — noting the advantages, types, equipment and materials.

Welding II

Auto Tech Concentration

9th Grade	10th Grade	11th Grade	12th Grade
Auto Tech I	Auto Tech 2	Auto Tech 3	Auto Tech Internship
Math	Math	Math	Elective of Choice or Internship
English	English	English	English
History	History	History	Elective Choice or Internship
Elective Choice	Elective Choice	Elective Choice or Internship	Elective Choice or Internship
Science	Science	Science	Elective Choice or Internship
World Language	World Language	Elective Chooice or Internship	Elective Choice or Internship
PE	PE	PE	PE
Lunch	Lunch	Lunch	Lunch

Auto/Tech

Eligible Grade(s)	Class	Pre-requisite(s)
10, 11, 12	AUTO TECH 1 This course, which builds and expands on the materials covered in the Construction Trades will develop an understanding of the key components of the Auto Tech field. Topics covered include safety in an Auto Tech shop as well as a broad spectrum view of suspensions, engines, fuel systems, emission systems, inspection requirements,	Construction Trades Cycle
10, 11, 12	AUTO TECH 2 This course continues to build students understanding of subject matter covered in Auto Tech 1 while also introducing students to repairs involving braking systems, transmissions and other auto repairs. It will emphasize diagnostic methods. Lectures and hands-on work will be introduced. Shop and personal safety, use of hand tools, lubrication services, car safety inspection, under car/under hood Visual inspections, oil & filter change, service of transmission, tire maintenance & repair, wheel bearing maintenance, basic automotive electricity & engine theory will be included.	Auto Tech 1
10, 11, 12	AUTO TECH 3 This course is a comprehensive review of the autobody content knowledge covered in the first two years of auto tech, with a focused emphasis on preparing students to enter the automotive field upon graduation. Students will have the opportunity to apply for internships with local mechanics while also continuing to learn the "front of house" business and adminisrative tasks of the field including providing estimates and ordering parts. Upon completion of this program, students will have the tools and business connections neccessary to begin their career as mechanics.	Auto Tech 2

"The expectations of life depend upon diligence; the mechanic that would perfect his work must first sharpen his tools."

Confucius



COURSE OFFERINGS

CULINARY

Eligible Class Grade(s)

10, 11,
12 CULINARY 1

An overview of the typical culinary and hospitality program. Students will be given selected topics in the production kitchen, front and back of the house, bake shop, pantry and foods of different lands. This course earns 10 credits in practical arts.

Pre-requisite(s)

None

11, 12 CULINARY 2

This course continues to build on the knowledge gained in Culinary 1 while providing a detailed understanding of careers in the food industry. Topics covered include nutrition, safety, proper equipment and service. This course earns ten credits in practical arts.

Culinary 1

"Cooking is a craft, I like to think, and a good cook is a craftsman -- not an artist. There's nothing wrong with that: The great cathedrals of Europe were built by craftsmen -- though not designed by them. Practicing your craft in expert fashion is noble, honorable, and satisfying."

Anthony Bourdain



HEALTH SCIENCES

"The best way to find yourself, is to lose yourself in service to others"

Mahatma Gandhi

Eligible
Grade(s)

CLASS

PRE-REQUISITE(S)

11,12 CLINICAL HEALTH

This course builds and expands upon content covered in the Dynamics of Public Health course. In Clinical Skills, students examine the health care environment from the perspective of the nurse. Students will begin to utilize the, Nursing Process and the idea of Evidence Based Practice. Students are introduced to the fundamental skill and talent, of "caring" and explore the unique needs of clients based upon age, condition, developmental status, and culture. Students will "practice" the art of communication as a means to assess these needs.

Dynamics of Public
Health

10, 11, 12 DYNAMICS OF PUBLIC HEALTH

This course builds and expands upon content covered in the Dynamics of Public Health course. In Clinical Skills, students examine the health care environment from the perspective of the nurse. Students will begin to utilize the, Nursing Process and the idea of Evidence Based Practice. Students are introduced to the fundamental skill and talent, of "caring" and explore the unique needs of clients based upon age, condition, developmental status, and culture. Students will "practice" the art of communication as a means to assess these needs.

Dynamics of Public
Health

9, 10 11,12 INTRODUCTION TO MEDICAL TERMINOLOGY

This course is a study of the language related to medical science and allied health specialties with emphasis on word analysis, construction, definition, pronunciation, spelling, and standard abbreviations. The program is system structured to facilitate association of terminology with anatomy and physiology, symptomatology, diagnostic operative and therapeutic procedures.

None

* Personal Financial Literacy embedded in course.

Course Offerings

Cosmetology/Barbershop

ELIGIBLE GRADE(S)

CLASS

PRE- REQUISITE(S)

9

IN VOGUE

The "In Vogue" course provides basic concepts and hands-on experiences in hair design in both a salon and barbershop setting. cosmetics, nail technology, manicure and pedicure, eyebrows and eyelashes, skincare esthetics and fragrances.

None

10,11,
12

COSMETOLOGY/BARBERSHOP

This course continues the study of the content knowledge gained during "In Vogue". Students will also be accruing professional training hours towards their state licensure. In addition to learning hands on techniques for hair, students will gain an understanding of the administrative tasks required for running a salon or barbershop. Preparation for state licensure requirements is covered here. Fields in the industry include:

In Vogue

- Advertising Stylist
- Barber
- Beauty Product Sales
- Contract Stylist
- Cosmetology Instructor
- Esthetician
- Fashion Show Assistant
- Hair Colorist
- Hair Stylist
- Lash Technician
- Laser Treatment
- Loctician
- Make-up Artist
- Make-up Demonstrator
- Manicurist
- Nail Technician
- Salon Manager
- Salon Owner

"The best color in the world is the one that looks good on you" and "Elegance comes from being as beautiful inside as outside"

Coco Chanel



COURSE OFFERINGS

Fashion

ELIGIBLE
GRADE(S)

CLASS

PRE-
REQUISITE(S)

10, 11,
12 CLOTHING CONSTRUCTION I

This course teaches students basic clothing construction techniques using both hand and machine sewing students will be expected to maintain a portfolio of sewing projects and complete at least three full garments during the course of the year.

* Personal Financial Literacy embedded in course.

None

11,
12 CLOTHING CONSTRUCTION II

This course is a follow up to Clothing Construction I where students will be expected to perfect learned skills and develop more advanced construction techniques. Students will maintain a sewing portfolio and be required to complete at least three full garments during the course of the year.

* Personal Financial Literacy embedded in course.

Clothing
Construction I

12 CLOTHING CONSTRUCTION III

This course is a follow up to Clothing Construction II where students will be expected to perfect learned skills and develop more advanced construction techniques. Students will maintain a sewing portfolio and be required to complete at least three full garments during the course of the year.

*This course is by Teacher Recommendation only

Clothing
Construction II

"What you wear is how you present yourself to the world, especially today, when human contacts are so quick. Fashion is instant language."

Miuccia Prada