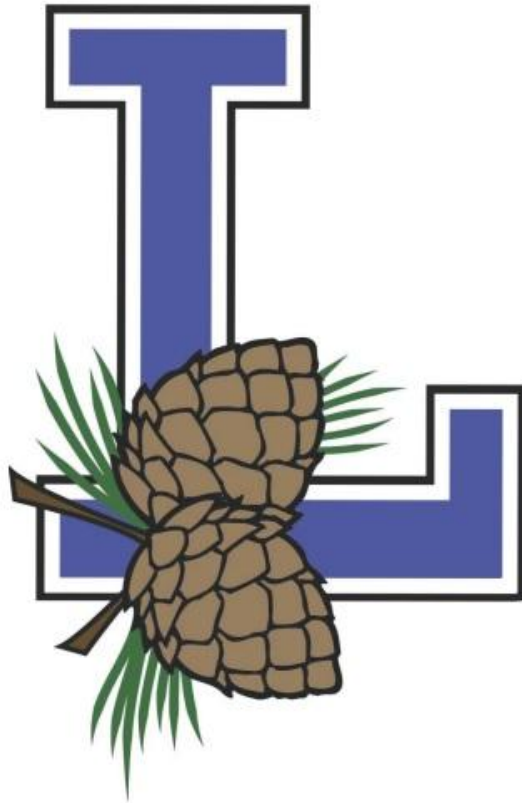


Lakewood High School



Program of Studies Handbook 2023 - 2024

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Lakewood High School School Counseling Department

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Mrs. Guilmar Brooks

Mrs. Corrine Hoffman

Mrs. Lori Iacono

Ms. Margaret Weinberger

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PLANNING YOUR HIGH SCHOOL PROGRAM

One of the most important decisions a high school student is called upon to make is the selection of courses which will best meet his/her abilities, needs, interests and future plans. The purpose of this handbook is to tell you about the courses which are available to you and to enable you to plan a program specifically designed for you.

This handbook contains descriptions of every course offered at Lakewood High School. It should be used when you plan your program of study. Before selecting a course, you should find out as much about it as you can – its objectives, requirements, and prerequisites (if any). If used properly, this handbook can effectively help you in setting the foundation for a successful school year.

Selecting a course of study is an important step in your life and great care should be taken in creating your program. Discuss selections with your school counselor and parents, and then resolve to work to the very best of your ability. The following important questions should be considered when developing your program of study.

1. What do I plan to do after high school? (4 Year College, 2 Year College, Vocational, Military)
2. Am I choosing courses that are appropriate to my abilities, interests, and vocational intentions?
3. Is my program for the next year rigorous and challenging?
4. Am I taking advantage of all scholastic opportunities being offered at Lakewood High School?

The Counseling staff urges you to visit the Counseling Office in order to become familiar with the services offered which will help you gain a better understanding of yourself and the opportunities available in higher educational institutions and career endeavors.



GRADUATION REQUIREMENTS

Graduation requirements as defined by State law fall into three categories – number of credits, courses required, and attendance requirements. To enter high school, a student must have passed the previous grade, (for example, a student must pass 8th grade to enter 9th.) Credits: Half-year courses are worth 2.5 credits, full-year courses are worth 5 credits, and vocational courses are worth 15 credits. School districts may establish course/credit requirements that exceed the state minimum. Lakewood High School students will complete 120 credits to graduate.

CLASS of 2023	CLASS of 2024	CLASS of 2025	CLASS of 2026
9TH GRADE CLASS Entering (2019-2020)	9TH GRADE CLASS Entering (2020-2021)	9TH GRADE CLASS Entering (2021-2022)	9TH GRADE CLASS Entering (2022-2023)
English I, II, III, IV	English I, II, III, IV	English I, II, III, IV	English I, II, III, IV
Health, Safety and Physical Education I, II, III, IV	Health, Safety and Physical Education I, II, III, IV	Health, Safety and Physical Education I, II, III, IV	Health, Safety and Physical Education I, II, III, IV
US History I & II World History	US History I & II World History	US History I & II World History	US History I & II World History
Algebra I, Geometry, plus, 1 more math class that builds on the concepts and skills of Algebra and Geometry and prepares students for College and 21 st Century Careers.	Algebra I, Geometry, plus, 1 more math class that builds on the concepts and skills of Algebra and Geometry and prepares students for College and 21 st Century Careers.	Algebra I, Geometry, plus, 1 more math class that builds on the concepts and skills of Algebra and Geometry and prepares students for College and 21 st Century Careers.	Algebra I, Geometry, plus, 1 more math class that builds on the concepts and skills of Algebra and Geometry and prepares students for College and 21 st Century Careers.
Biology + 2 more Lab sciences	Biology + 2 more Lab sciences	Biology + 2 more Lab sciences	Biology + 2 more Lab sciences
Financial Literacy or Entrepreneurship	Financial Literacy or Entrepreneurship	Financial Literacy or Entrepreneurship	Financial Literacy or Entrepreneurship
World Language	World Language	World Language	World Language
Visual/Performing Art	Visual/Performing Art	Visual/Performing Art	Visual/Performing Art
1 elective in Career Education and Consumer, Family, Life Skills, or Career-Technical Education	1 elective in Career Education and Consumer, Family, Life Skills, or Career-Technical Education	1 elective in Career Education and Consumer, Family, Life Skills, or Career-Technical Education	1 elective in Career Education and Consumer, Family, Life Skills, or Career-Technical Education
NJ Dept of Ed Proficiency Exam or Equivalent	NJ Dept of Ed Proficiency Exam or Equivalent	NJ Dept of Ed Proficiency Exam or Equivalent	NJ Dept of Ed Proficiency Exam or Equivalent

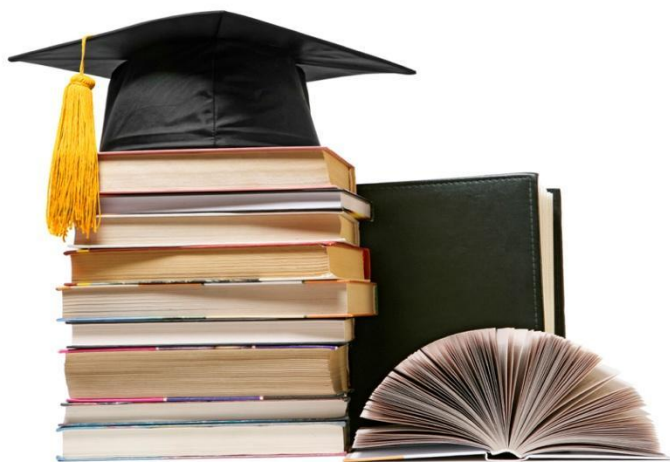
COURSE SELECTION AND CHANGES

Course selections will be made during a personal, individual scheduling session with the student and School Counselor. When all scheduling is completed, students will receive a printout of requested courses for review. Students should contact their School Counselor to discuss scheduling, should any changes need to be made. **Once school opens, schedule changes are restricted to improper placement and/or educationally valid concerns.** Part of the student's education at Lakewood High School includes developing good decision-making skills, taking personal responsibility for their education, and developing effective coping skills. Schedule changes requested to alleviate the perceived challenge of academic rigor are seen as contradictory to our mission; our mission statement is designed to prepare students for post-secondary opportunities in the real world, which includes instilling in them a sense of responsibility for their actions and decisions. Your participation, cooperation and understanding is appreciated.

Schedule changes after October 1st can only be made with approval of the Director of School Counseling and building administration. If students drop a course AFTER the deadline, the course will appear on their transcripts with a grade of WP (withdraw pass) or WF (withdraw fail), whichever is appropriate. If a student changes course levels; e.g. AP Calculus to Honors Calculus or Academic, etc. at any time, the grades, including final marking period grades and grades in progress, from the original class are transferred to the new class and are included in computing the final average.

SCHEDULING

The scheduling process for the school year occurs during the second half of the school year. The process begins with counselor presentations in a classroom setting. The process continues with individual, personalized scheduling by appointment with counselor and student. Student progress, goals, abilities, and career choices are reviewed at this time, and the educational/vocational action plan is developed in relationship to the appropriate courses and programs offered at Lakewood High School.



Admission Requirements For College

Students interested in attending college should begin their college planning early in their high school career. Since each college establishes its own particular requirements, it is important that you follow instructions set forth by the colleges being considered. Your School Counselor will assist you in your planning. Students are given the opportunity to meet with representatives from a variety of colleges that visit our high school during the school year.

Over the past few years, some colleges have revised admission policies. Academic subjects taken for each of the four high school years will total the necessary 16 units. The following is a model pattern:

English	4 years	4 units
Social Studies	3 years	3 units
Algebra I, II	2 years	2 units
Geometry	1 year	1 unit
Science (with Lab)	2 years	2 units
World Language	2 years	2 units

In addition to these 14 units, students should select 2 or more college preparatory subjects from the following areas: Social Studies, Mathematics, Science, and World Language. Highly selective colleges and universities **require** students to show evidence of a competitive and demanding program of study.

Factors determining college acceptance are:

- Four year scholastic record and class rank.
- Challenging courses throughout all four years of high school.
- Comments and recommendations from counselors and teachers.
- College entrance test scores. Most colleges require College Board Examinations (SAT), American College Tests (ACT), or their own entrance assessments. The emphasis upon test performance as it relates to college admission varies from college to college.



OPPORTUNITIES TO EARN COLLEGE CREDIT

Ocean County College, Toms River, NJ

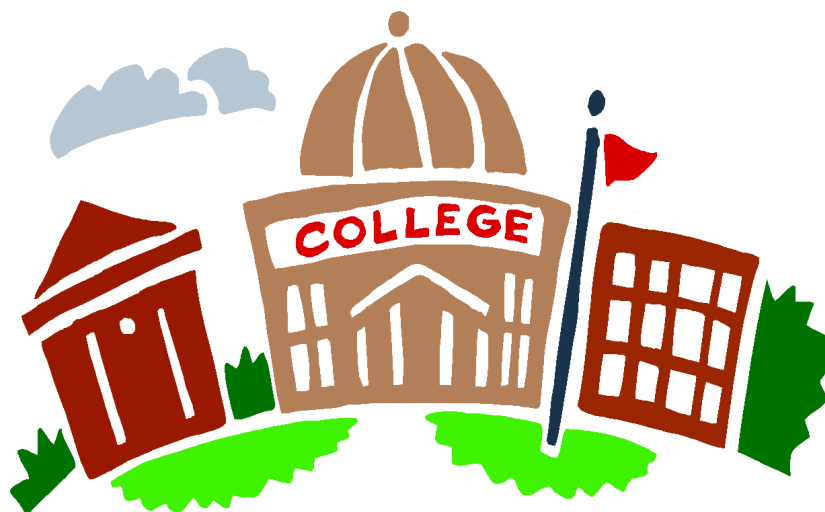
Dual Enrollment Program

Dual enrollment programs allow students to be enrolled in two separate, academically related institutions. Generally, it refers to high school students taking college or university courses. The Lakewood Board of Education is pleased to announce the continued partnership with Ocean County College and Lakewood High School to offer a significant number of dual enrollment courses this year with no charge to the students. This will allow students to graduate high school with an Associates Degree from OCC for their respective program!

Below is a list of the courses that will be offered for the 2022-2023 school year.

Course Name	OCC Course Number	Number of Credits
Principles of Biological Science	Biol 114	4
Science and the Human Body	Biol 119	4
Human Anatomy and Physiology I	Biol 130	4
Introductory Chemistry	Chem 180	4
General Chemistry I	Chem 181	4
Fundamentals of Public Speaking	Comm 154	3
Introduction to Computers and Computer Applications	CSIT 110	3
Integrated Office Software	CSIT 123	3
English I	Engl 151	3
Graphics for Engineers	Engr 181	2
Autodesk Inventor	Engr 198	3
Environmental Sci	Envi 152	4
United States History to 1877	Hist 173	3
World Civilization From 1660	Hist 182	3

College Algebra	Math 161	6
Precalculus I	Math 191	3
Physics I	Phys 171	4
Elementary Spanish I	Span 151	3



NCAA CLEARINGHOUSE

Athletic Eligibility/Division I and II

NCAA Eligibility Center SAT code – 9999

In order to play Division I or II NCAA sports in college, you must be certified by the NCAA Clearinghouse. Applications are completed online at <http://www.eligibilitycenter.org>. See your School Counselor for instructions. To insure compliance, **it is recommended that the application be filed in the Junior year.**

Core Courses

- NCAA Division I and II require 16 core courses. See the list below for the breakdown of the 16 course requirement:

16 Core Courses

- 4 Years of English
- 3 Years of Mathematics (Algebra I or higher)
- 2 years of Natural/Physical Science (1 year of lab if offered by high school)
- 1 year of additional English, Mathematics or Natural/Physical science.
- 2 years of social science
- 4 years of additional courses (from any area listed above, World Language, or comparative Religion/Philosophy)

Division I

Core Course

- MUST complete 10 core courses before the start of senior year
- ***CORE COURSES CANNOT BE REPEATED**
- 7 of the 10 courses MUST be in English, Math or Natural/Physical Science

Test Scores

- Earn the SAT/ACT score matching your core-course GPA on the Division I sliding scale

Grade-Point Average

- Minimum of 2.3 core grade-point average (GPA) on the sliding scale

Division II

Core Course

- 16 core course requirement before graduation

Test Scores

- Earn the SAT/ACT score matching your core-course GPA on the Division II sliding scale

Grade-Point Average

- Minimum of 2.2 core grade-point average (GPA)

***Beginning Aug. 2018, Division II will also use a sliding scale to match test scores and core course GPA**

Division I and II – Reminders:

- The sliding scale for those requirements is shown on the NCAA eligibility center webpage: <http://www.eligibilitycenter.org>
- Only courses that appear on your school's list of NCAA courses will be used in the calculation of the core grade-point average
- The NCAA grade-point average is calculated by the NCAA Clearinghouse using the NCAA core courses only. See your School Counselor for a worksheet to determine core G.P.A.
- Meeting the NCAA academic rule requirement does not guarantee your admission into college. You must still apply for admission.

NATIONAL HONOR SOCIETY TUTORING PROGRAM

Lakewood High School National Honor Society

Leadership * Service * Respect * Character * Scholarship

Students who have earned National Honor Society status are available to provide weekly tutoring for students requesting extra help, or students at risk of failing one or more subjects. Students that are in need of tutoring must demonstrate a level of effort to be considered for NHS tutoring; this is co-determined by the subject-area teacher and School Guidance Counselor. Students must meet an attendance and behavior standard in order for tutoring to begin and continue. Reporting is submitted on a weekly basis to the student's School Counselor on a weekly basis. To be considered eligible for NHS tutoring, regardless of failing/non-failing status, a student must...

1. Regularly attend classes
2. Be on time daily
3. Follow the school electronics policy
4. Be respectful to teachers and fellow students
5. Participate/ be engaged in the learning process daily
6. Display measurable effort in the subject area

Students who are not deemed eligible can apply for eligibility through a weekly progress report; once it is determined that they have become eligible, they will be assigned a tutor on a probationary basis.



21st CENTURY LIFE & CAREER SKILLS

The challenges confronting our students in the 21st century marketplace demand the acquisition of core knowledge and skills in addition to specific career-related experiences that prepare them to make better decisions about their future education and employment opportunities. Courses offered through the 21st Century Life and Career Skills Department meet those demands by engaging students in project based, real-world learning experiences that provide a mix of skills and aptitudes necessary for success after high school. Course curriculum is designed to strictly adhere to the New Jersey Core Curriculum Content Standards, the Common Core State Standards and the Common Career Technical Core Standards.

Structured Learning Experience/Senior Option (0694SL)

Gr. 12

Credits: 5

PREREQUISITE(S): Valid driver's license; ability to provide own transportation; completion of most graduation and testing requirements.

DESCRIPTION OF COURSE: The Senior Option Program helps students gain a competitive edge when transitioning from school-to-work or high school to college. Students gain valuable hands-on-experience while gaining academic credits. Through this experience, out students perform important services for their respective community, employers, and schools, as they prepare for their future. Students at Lakewood High School can use this program to map out their career choice and discover the various career clusters with field of training participating students must have completed most graduation and testing requirements and have a valid driver's license and transportation. Juniors must complete an application and interview before the end of the current school year.

Army Junior ROTC

The principal goal of JROTC is "CIVIC VALUES, ETHICS & DISCIPLINARY STANDARDS." The purpose of this is rapidly growing, viable, dynamic and exciting elective Program of Instruction is to provide participating students with a developmental opportunity for a challenging and rewarding experience in a structured military environment which will be a value to the cadet, family, school, community and America. The curriculum complements all other courses of studies, activities and events.

JROTC is open to all students. Females and males are enrolled in the Corps of Cadets and we strictly adhere to non-discrimination policy. Uniforms, equipment and academic instructional materials are provided free of charge and entrusted to cadets who are responsible and accountable for their safekeeping. Failure to maintain issued supplies requires reimbursement. Parents/Guardian will be held legally liable for recoupment of cadet justly owed debts. JROTC involvement requires no obligation toward military service; the only commitment is to the Lakewood High School JROTC program.

The totality of the JROTC Citizenship & Leadership experience necessitates cadet participation in extra-curricular activities. We offer a variety of teams, special trips for parades and competitive meets, etc., community service, summer camp, and weekend visitations/school trips. Promotions, positions and awards are based on in-school and extracurricular involvement. Grades are based on total cadet performance.

JROTC offers three unique, and particularly challenging and stimulating success and achievement- oriented Citizenship & Leadership programs:

1. **One week multi-state multi-service JROTC HS Summer Encampment at Ft. Dix, NJ** – mid to late June for newly enrolled cadets and incumbent cadet leaders. Army reserve, National Guard and Active USAF, USA & USN conducts training.
2. **Four weekend Activity Trips per school year** *(Sept-May) to Ft. Dix, for reinforcement of school academics, additional military skill attainment, and drill, riflery and athletic competitions.
3. **Military, Cultural & Historical Trip Series** of in school, after school, and partial/full weekend travels on a quarterly basis.

Vocational-Technical & Cooperative Education students and students in Health & Physical Education courses may avail themselves of the outstanding opportunity to enroll in JROTC – thru the special integrative programs & participate in all trips, and activities, through their School Counselor.

Leadership and Citizenship (0683)

Grades: 09, 10

Credits: 5

PREREQUISITE(S): No

DESCRIPTION OF COURSE: Year 1 consists of: Foundations of Leadership, Being A Leader, Leadership Skills, Know Yourself/Self Awareness, Learning to Learn, Study Skills, Communication Skills, nutrition and physical fitness and Conflict Resolution. Students that complete the course will be eligible to continue onto JROTC level II.

Leadership Education Training (LET) I (JROTC) (0684) (Perkins Level 1)

Grades: 09, 10

Credits: 5

PREREQUISITE(S): No

DESCRIPTION OF COURSE: The first-year course is an introduction/orientation to cadet CITIZENSHIP & LEADERSHIP development thru FELLOWSHIP. The program of instruction emphasizes: CIVIC VALUES, ETHICS & DISCIPLINARY STANDARDS. The cadet entry experiences incorporate an “accelerated promotion” program from cadet corporal as an incentive for meritable cadets who become actively involved as cadet participants in JROTC activities. Subjects include: Leadership Labs of Drill and Ceremonies, Physical Training, and Cadet Challenge; Academics: Citizenship and History of the Nation and JROTC, Map Reading, Communications, First Aid, Marksmanship & Safety, Human Relations, Current Events, Basic School Skill Review, and Selected Optional Subjects including spontaneous and planned events.

Leadership Education Training (LET) II (JROTC II) (0685) (Perkins Level 2)

Grades: 10

Credits: 5

PREREQUISITE(S): LETI/JROTC I

DESCRIPTION OF COURSE: The second year focuses on the immediate level of cadet CITIZENSHIP & LEADERSHIP development. The program of instruction emphasizes: CIVIC VALUES, ETHICS & DISCIPLINARY STANDARDS. Emphasis is placed on training the junior noncommissioned officer cadet in techniques of being capable and confident small unit leaders thru transition of FOLLOWERSHIP to LEADERSHIP. Subjects include: Leadership Labs of Drill and Ceremonies, Physical Training, and Cadet Challenge; Academics: Weapons & Marksmanship Safety, Oral communication, Mapping & Compass, First Aid, Service/ROTC opportunities; Human Relations, Current Events, Basic Skills Review, and Selected Optional Subjects including spontaneous and planned events.

Leadership Education Training (LET) III (JROTC III) (0686) (Perkins Level 3)

Grades: 11

Credits: 5

PREREQUISITE(S): LETII/JROTC II

DESCRIPTION OF COURSE: The third year course is applied cadet CITIZENSHIP & LEADERSHIP development. The program of instruction emphasizes: CIVIC VALUES, ETHICS & DISCIPLINARY STANDARDS. Some of the highest positions will be filled with cadets from this year group enabling opportunities to practice CITIZENSHIP & LEADERSHIP IN SENIOR CADET NON COMMISSIONED OFFICER GRADES. Management of resources and Time considerations are emphasized. Subjects include: Leadership Labs of Drill and Ceremonies, Physical Training, and Cadet Challenge; Academics: Command, Staff Functions and Procedures, Organization and Management, Time Constraints and Utilization, Training & Evaluations, Human Relations, Current Events, Basic Skills Review, and Selected Optional Subjects including spontaneous and planned events.

Leadership Education Training (LET) IV (JROTC IV) (0687) (Perkins Level 4)

Grades: 12

Credits: 5

PREREQUISITE(S): LET I, I, III

DESCRIPTION OF COURSE: The fourth year culminating course is cadet advanced CITIZENSHIP & LEADERSHIP development. The program of instruction emphasizes: CIVIC VALUES, ETHICS & DISCIPLINARY STANDARDS. Some of the highest chain of command and staff position will be occupied by cadet officers who totally administer the CORPS of CADET to include serving as Assistant Instructors and role models for CITIZENSHIP and setting LEADERSHIP example. Subjects include: Leadership Labs of Drill and Ceremonies, Physical Training, and Cadet Challenge; Academics: Psychology of Leadership, Seminar in Leadership & Management, Large & Small Unit Leadership problems, Communications, Command & Staff, Military Technical Skills, Human Relations, Current Events, Basic Skills Review, and Selected Optional Subjects including spontaneous and planned events.

Hospitality and Culinary I: Food & Beverage/Commercial Foods (0814) (Perkins Level 1)

Gr. 09, 10, 11, 12

Credits: 5

PREREQUISITE(S): No

DESCRIPTION OF COURSE: This one semester course provides an overview of the "Hospitality" field and culinary/management career topics and opportunities. Topics include: cuisine, food service organizations, career opportunities, food service styles, and basic culinary preparation and management concepts. Students will learn about safety, sanitation, equipment maintenance, and operation procedures and fundamental food preparation terms, concepts, and methods such as weights and measures, conversions, food costs, basic cooking principles and recipe utilization. It also provides an overview of the commercial aspects of the hospitality food and beverage field. Topics include: terms, concepts, and methods for commercial food preparation, basic cooking principles, recipe utilization, baking principles, ingredients, supplies and equipment, buffet presentation, cold preparations, cold sandwiches, salads and dressings, garnishes, hors d'oeuvres and fundamentals of commercial dining and beverage service

Hospitality and Culinary II: Culinary Arts (0815) (Perkins Level 2)

Gr. 10, 11, 12

Credits: 5

PREREQUISITE(S): Hospitality, Food & Beverage and Commercial Foods with grade of C or higher

DESCRIPTION OF COURSE: This course prepares students for success and job readiness in the culinary and food service field. This course will focus on food safety, equipment safety and maintenance and cooking techniques. Food safety and familiarity with kitchen equipment combined with occupational and personal safeties is the cornerstone of the culinary program. Preparing and cooking foods using dry and moist heat cooking methods will be reinforced throughout the program. Completion of this course prepares students for the ServSafe certification which is evidence of the students' proficiency in food safety.

Hospitality and Culinary III: Catering and Restaurant Service (0817) (Perkins Level 3)

Gr. 10, 11, 12

Credits: 5

PREREQUISITE(S): Hospitality, Food & Beverage, Commercial Foods with C or higher.

DESCRIPTION OF COURSE: This course provides advanced experiences with the preparation, presentation and business aspects with quantity foods. Students will plan and develop menus based on trends, dietary restrictions, nutritional value and influences of cuisines and culinary techniques from around the world. Purchasing, receiving and accounting of foods, dry goods, chemicals, supply management, inventory, financial transactions and management skills will prepare students for training assistants, management and supervising opportunities. Fundamentals of dining room and catering service principles will be included such as laws, dining service functions, preparation and setup, cafeteria, buffet service, table side service, and merchandising.

Fashion Design I (0828) (Perkins Level 1)

Gr. 09, 10, 11, 12

Credits: 5

PREREQUISITE(S): None

DESCRIPTION OF COURSE: The Fashion Design course is designed for students who are interested in learning how to create their own fashions. Students will be guided through the designing phase of fashion and learn the basics of sewing to bring their creation to life.

Fashion Design II (0829) (Perkins Level 2)

Gr.10, 11, 12

Credits: 5

PREREQUISITE(S): Fashion Design I with C or higher

DESCRIPTION OF COURSE: This course builds upon skills learned in Fashion I. The Fashion Design II course is designed for students who are interested in learning how to create their own fashions. The student shall learn tailoring techniques, construction techniques, specialization in pattern alterations and finishing details. Students learn new and more complex design construction, and develop advanced techniques currently used in the fashion industry.

Fashion Design III (0830) (Perkins Level 3)

Gr. 11, 12

Credits: 5

PREREQUISITE(S): Fashion Design I with C or higher, Fashion Design II with B or higher

DESCRIPTION OF COURSE: Fashion Design III is an advanced course designed for the student who wants to continue their study in a post-secondary setting or enter an occupation in the clothing industry. Students will learn advanced techniques of construction, design and finishing techniques as they enhance their skill in the technical and creative aspects of apparel design.

Television Production I (0706) (Perkins Level 1)

Gr. 09, 10, 11, 12

Credits: 5

PREREQUISITE(S): No

DESCRIPTION OF COURSE: In this course, students will be introduced to the theory of television production and gain an overview of the television production field and related career opportunities. Through their participation in a variety of real world production jobs, students will learn how to use equipment such as portable camcorders, microphones, computer hardware and editing software. Production jobs will include script writing and editing, directing, producing, and camera operation. Students will use their acquired skills to produce a variety of video projects.

Television Broadcast Journalism II (0700) (Perkins Level 2)

Gr. 10, 11, 12

Credits: 5

PREREQUISITES: C or higher in Television Production I

DESCRIPTION OF COURSE: This course will build on the knowledge and skills students learned in Television Production I. Through classroom exercises and real world projects, students will learn advanced techniques and technical aspects of broadcast journalism, film making, video journalism, news gathering, and studio production skills. Cooperative group skills, critical thinking and problem solving will be emphasized as students create their own projects and operate a weekly news program.

Advanced Television Broadcast Journalism III (0711) (Perkins Level 3)

Gr. 10, 11, 12

Credits: 5

PREREQUISITES: C or higher in Television Production I, B or higher in Broadcast Journalism II

DESCRIPTION OF COURSE: This course will extend the skills learned in Broadcast Journalism II by emphasizing independent study and special projects. Production of independent short films and the continued production of a weekly news show at the school are prominent in this course. Student work with software such as Final Cut Pro and Adobe *After Effects* will develop the skills and experience required for post-secondary study or careers in the television production industry.

Recording Arts I (0638) (Perkins Level 1)

Gr. 09, 10, 11, 12

Credits: 5

PREREQUISITE(S): No

DESCRIPTION OF COURSE: Students will learn the techniques of audio recording and the employment opportunities that are available in the recording arts industry. Through coursework designed with a project based approach, students will learn industry language such as vocabulary and learn skills to use basic equipment such as microphones, speakers, amplifiers, sequencers, and digital audio workstations. They will also learn to distinguish analog and digital signals and how to make effective multi-track recordings. This course is designed to teach students how to play, record, and mix, both music and audio, for video projects and to produce CD's.

Recording Arts II (0639) (Perkins Level 2)

Gr. 10, 11, 12

Credits: 5

PREREQUISITE(S): Recording Arts I

DESCRIPTION OF COURSE: Students will develop the skills learned in Recording Arts I. They will enhance this knowledge by learning those skills on an Apple Mac platform and by applying the skills using different software applications such as Logic Pro and Pro Tools.

They will learn how to use effects such as equalization, compression, echo and reverb to enhance their audio productions. Through a variety of real world projects, students will learn to mix and master audio signals and to produce compact discs of their projects.

Recording Arts III (0640) (Perkins Level 3)

Gr. 11, 12

Credits: 5

PREREQUISITE(S): Recording Arts I and II

DESCRIPTION OF COURSE: Students will build on the skills acquired in level II. Students will use advanced features of software applications to create independent compositions and projects. They will be introduced to the business of the recording arts industry that addresses recording rights, production, marketing, advertising and retailing. Students will analyze business opportunities available in the recording arts industry and learn how to prepare business plans, analyze copyright laws and file for copyright protection of their original audio products.

Tomorrow's Teachers

Gr. 12

Credits: 5

PREREQUISITE(S): Interest in pursuing a career as a teacher

DESCRIPTION OF COURSE: Using the Teacher Cadet curriculum, students will have the opportunity to learn about the rewards and challenges of being an educator; develop an awareness of critical issues that impact education in American schools; and participate in a hands-on field experience within one of the Lakewood Public Schools.

BUSINESS AND MEDIA TECHNOLOGY

Classes offered in Business and Media tech are designed to enhance students' knowledge of software applications, that are/can be used throughout everyday lives, both in and out of the classroom. MLA-style documents are introduced, PowerPoint presentations are created and Excel, Word, *Google Docs* and other practical applications are offered. Sound financial planning and money management courses are included as well as the creations of personalized business plans and web page design.

Communications for Business Administration (0622) (Perkins Level 1 - Part I)

Gr. 10, 11

Credits: 2.5

PREREQUISITE(S): None

DESCRIPTION OF COURSE: Business Communications will focus on the development of how to write professional documents, research, and presentations within a business environment. Per our advisory committee, students coming out of high school need to focus more on the ability to communicate professionally. Students will also learn how to interview for positions, learn the rules for public speaking, and make presentations to the class on business research topics.

Entrepreneurship (0642) (Perkins Level 1 - Part II)

Gr. 10, 11, 12

Credits: 2.5

PREREQUISITE(S): C or higher in Information Technology. Underclassmen with approval

DESCRIPTION OF COURSE: Students will learn the benefits and risks of owning a business. Students will develop a plan to set up and market the business by analyzing various business opportunities. Their analysis will help them determine the investment required and the expected return on the investment. They will learn the traits and skills entrepreneurs display in handling expenses, cash flow, production, and purchasing and inventory control. The class will culminate with student preparation of a personalized business plan.

Accounting (0607) (Perkins Level 2)

Gr. 11, 12

Credits: 5

PREREQUISITE(S): Grade of C or better in Business Communications/Entrepreneurship

DESCRIPTION OF COURSE: The Accounting I course provides an introduction to the accounting processes and procedures of using worksheets to document all transactions involved in various types of businesses. Students focus on starting a proprietorship, and recording, adjusting, and closing entries, general and subsidiary ledgers, payroll records, and financial statements. Benchmark assessments are employed to track individual student progress.

**Business Management (0641) Ocean County College – Jump Start Program
(Perkins Level 3)**

Grades: 12

Credits: 5

PREREQUISITE(S): Communications, Entrepreneurship, Accounting

DESCRIPTION OF COURSE: Business Management is an elective course offered at Lakewood High School, earning college credit through Ocean County College. It is a thorough survey of the activities that make up the field of business. Emphasis is placed on such topics as ownership, management, organization, purchasing, marketing, production, personnel, finance, and government regulations. Industry's environment and human resource practices.

Google Applications for the 21st Century Microsoft Office (0617)

Gr. 9, 10, 11, 12

Credits: 5

PREREQUISITES: None

DESCRIPTION OF COURSE: This course gives students a chance to explore the newest regions of technology through the use of *Google Apps*. *Google Apps* has all the tools that students need to be productive, including drive, sites, calendar, and more. These tools are free to everyone in the world, and are built for the Web so everyone can work together across any device, anytime. Students will explore *Google Apps* and how they can be used throughout everyday lives, both in and out of the classroom.
Computer Science Principles

In the second half of the course, Microsoft Office, students will create documents in word processing, spreadsheets, database, and multimedia presentation software. Integration projects using the different programs will prepare students to use this software outside the classroom.

Financial Literacy (0637)

Grades: 09, 10, 11, 12

Credits: 2.5

PREREQUISITE(S): No

DESCRIPTION OF COURSE: All students are required to take this course as a graduation requirement. It is a one-semester course that is designed to present students with the knowledge they need for sound financial planning and money management. The skills developed in this course will teach students to make real world decisions about financial planning, budgeting, earning power, investing, bank accounts, credit and insurance. Developing students' understanding of how to manage these personal financial issues is key to their future financial success.

Business Law (0605)

Grades: 11, 12

Credits: 2.5

PREREQUISITE(S): Underclassmen with approval

DESCRIPTION OF COURSE: The complexity of our society and our legal system requires that students develop an understanding of their rights and obligations in business situations. This course will teach students those rights by analyzing case law relating to criminal and civil law, torts, contract, landlord/tenant contracts and other current topics. Students will understand and apply different aspects of criminal law through performing different roles in a mock trial.

Social Media Marketing (0643)

Gr. 10, 11, 12

Credits: 2.5

PREREQUISITE(S): None

DESCRIPTION OF COURSE: A newer course in Marketing Education, will teach marketing students how to create and maintain a social media presence for business, including Facebook, Twitter, Google+, Tumblr, LinkedIn, YouTube, Instagram, etc. Students will learn to use social media and content marketing to grow their business and engage with customers.

Principles of Marketing (0644)

Gr. 10, 11, 12

Credits: 2.5

PREREQUISITE(S): None

DESCRIPTION OF COURSE: This course is designed for students who wish to enter the business field. Have you ever seen an advertisement and felt the urge to go buy the product, or noticed the “relevant to you” ads on social media sites? This course will explain all that and more. Topics include the marketing environment and process, consumer behavior, distribution, retailing innovations, product planning, packaging, selling, advertising and so much more.

Principles of Management (6045)

Gr. 10, 11, 12

Credits: 2.5

PREREQUISITE(S): None

DESCRIPTION OF COURSE: This course is designed for students who wish to enter the business field. It will provide students with an understanding of the various functions of running a business. Students will attain an understanding of management, team building, leadership, problem-solving steps, and processes that contribute to the achievement of organizational goals. The course also affords students the opportunity to develop an ability to objectively analyze and solve management problems.

Introduction to Gaming and App Design (0648)

Gr. 9, 10, 11, 12

Credits: 2.5

PREREQUISITE(S): None

DESCRIPTION OF COURSE: Students will be introduced to the basic elements of game design and app development. The importance of storytelling and planning will be discussed. Teamwork will be utilized as students move through program development.

Video Game Design (0649)

Gr. 10, 11, 12

Credits: 2.5

PREREQUISITE(S): Introduction to Computer Science or Intro Gaming and App Design

DESCRIPTION OF COURSE: Students learn how to create video games in JavaScript in this honors-level, introductory course. Its curriculum teaches the foundations of computer science and basic programming, with an emphasis on helping students develop logical thinking and problem-solving skills.

Introduction to Computer Science (0650)

Gr. 9, 10,11, 12

Credits: 5

PREREQUISITE(S): None

DESCRIPTION OF COURSE: Students in CS Discoveries work in a wide array of contexts that are tied together by a core set of practices they develop throughout the course. These student practices provide coherence and serve as helpful reminders of the high-level skills and dispositions they should be continually developing. Throughout the curriculum, you will reflect on development, in all major projects, work with HTML (coding) and web design.

Computer Science Principles (0651)

Gr. 9, 10, 11, 12

Credits: 5

PREREQUISITE(S): None

DESCRIPTION OF COURSE: Introduces students to the foundational concepts of computer science and challenges them to explore how computing and technology can impact the world. Fundamental topics include problem solving, design strategies and methodologies, organization of data, approaches to processing data, analysis of potential solutions, the ethical and social implications of computing.

ENGLISH LANGUAGE ARTS

The nature of English Language Arts instruction demands that the New Jersey Learning Standards be addressed at multiple levels and over the course of four units throughout each grade level. Students will learn and utilize close reading strategies and critical-thinking skills, which they will apply in varying circumstances, with both informational and literary texts of varying levels of complexity. Students must learn to read, write, speak, listen, and use language effectively at the appropriate grade-level standard, acquiring literacy skills and concepts required for college and career readiness. Each course consists of four units as per the New Jersey Curricular Framework and each unit culminates in a Benchmark Assessment that assesses the mastery of the skills taught. Each course is strictly aligned to the New Jersey Learning Standards in order to prepare all students for the Partnership for Assessment of Readiness for College and Careers (PARCC).

English I - Honors (0110) (NCAA Approved Course)

Gr. 09

Credits: 5

PREREQUISITE(S): Final average of 90 or higher in 8th grade ELA or final average of 80 or higher in 8th grade Honors ELA; Teacher Recommendation; writing sample.

DESCRIPTION OF COURSE: English I Honors is an accelerated course that prepares the student for subsequent English Honors classes and AP classes. Students will read and comprehend literature, including stories, dramas, and poems and literary nonfiction in the grades 9-10 text complexity band proficiently, with scaffolding as needed at the high end of the range. Students will write arguments to support claims in an analysis of substantive topics or texts, using valid reasoning and relevant and sufficient evidence; informative/explanatory texts to examine and convey complex ideas, concepts, and information clearly and accurately through the effective selection, organization, and analysis of content; and narrative to develop real or imagined experiences or events using effective technique, well-chosen details, and well-structured event sequences. Students will refine their speaking and listening skills through a range of collaborative discussions.

English I (0111) (NCAA Approved Course)

Gr. 09

Credits: 5

PREREQUISITE(S): No

DESCRIPTION OF COURSE: Students will read and comprehend literature, including stories, dramas, and poem and literary nonfiction in the grades 9-10 text complexity band proficiently, with scaffolding as needed at the high end of the range. Students will write arguments to support claims in an analysis of substantive topics or texts, using valid reasoning and relevant and sufficient evidence; informative/explanatory texts to examine and convey complex ideas, concepts, and information clearly and accurately through the effective selection, organization, and analysis of content; and narrative to develop real or imagined experiences or events using effective technique, well-chosen details, and well-structured event sequences. Students will refine their speaking and listening skills through a range of collaborative discussions.

English II - Honors (0120) (NCAA Approved Course)

Gr. 10

Credits: 5

PREREQUISITE(S): Final average of 90 or higher in English I or final average of 80 or higher in English I Honors; Teacher Recommendation; writing sample.

DESCRIPTION OF COURSE: English II Honors is an accelerated course that prepares the student for subsequent English Honors classes and AP classes. Students will read and comprehend literature, including stories, dramas, and poems and literary nonfiction at the high end of grades 9-10 text complexity band proficiently, with scaffolding as needed at the high end of the range. Students will write arguments to support claims in an analysis of substantive topics or texts, using valid reasoning and relevant and sufficient evidence; informative/explanatory texts to examine and convey complex ideas, concepts, and information clearly and accurately through the effective selection, organization, and analysis of content; and narrative to develop real or imagined experiences or events using effective technique, well-chosen details, and well-structured event sequences. Students will refine their speaking and listening skills through a range of collaborative discussions.

English II (0121) (NCAA Approved Course)

Gr. 10

Credits: 5

PREREQUISITE(S): No

DESCRIPTION OF COURSE: Students will read and comprehend literature, including stories, dramas, and poems and literary nonfiction at the high end of grades 9-10 text complexity band proficiently, with scaffolding as needed at the high end of the range. Students will write arguments to support claims in an analysis of substantive topics or texts, using valid reasoning and relevant and sufficient evidence; informative/explanatory texts to examine and convey complex ideas, concepts, and information clearly and accurately through the effective selection, organization, and analysis of content; and narrative to develop real or imagined experiences or events using effective technique, well-chosen details, and well-structured event sequences. Students will refine their speaking and listening skills through a range of collaborative discussions.

English III - Advanced Placement - Language & Composition (0130AP) (NCAA Approved Course)

Gr. 11

Credits: 10

PREREQUISITE(S): Final average of 85 or higher in English II Honors and meets expectation on NJSLA ELA; Teacher Recommendation; writing sample.

DESCRIPTION OF COURSE: An AP course in English Language and Composition engages students in becoming skilled readers of prose written in a variety of rhetorical contexts, and in becoming skilled writers who compose for a variety of purposes. Both their writing and their reading should make students aware of the interactions among a writer's purposes, audience expectations, and subjects, as well as the way genre conventions and the resources of language contribute to effectiveness in writing. The Advanced Placement English Language and Composition Exam is taken in May.

English III - Honors (0130) (NCAA Approved Course)

Gr. 11

Credits: 5

PREREQUISITE(S): Final average of 90 or higher in English II or Final average of 80 or higher in English II Honors; Teacher Recommendation; writing sample.

DESCRIPTION OF COURSE: English III Honors is an accelerated course that prepares the student for subsequent English Honors classes and AP classes and also for college and career readiness. Students will read and comprehend literature, including stories, dramas, and poems and literary nonfiction at the high end of grades 11-12 text complexity band proficiently, with scaffolding as needed at the high end of the range. Students will write arguments to support claims in an analysis of substantive topics or texts, using valid reasoning and relevant and sufficient evidence; informative/explanatory texts to examine and convey complex ideas, concepts, and information clearly and accurately through the effective selection, organization, and analysis of content; and narrative to develop real or imagined experiences or events using effective technique, well-chosen details, and well-structured event sequences. Students will refine their speaking and listening skills through a range of collaborative discussions.

English III (0131) (NCAA Approved Course)

Gr. 11

Credits: 5

PREREQUISITE(S): No

DESCRIPTION OF COURSE: Students will read and comprehend literature, including stories, dramas, and poems and literary nonfiction, in the grades 11-CCR text complexity band proficiently, with scaffolding as needed at the high end of the range. Students will write arguments to support claims in an analysis of substantive topics or texts, using valid reasoning and relevant and sufficient evidence; write informative/explanatory texts to examine and convey complex ideas, concepts, and information clearly and accurately through the effective selection, organization, and analysis of content; and write narratives to develop real or imagined experiences or events using effective technique, well-chosen details, and well-structured event sequences. Students will refine their speaking and listening skills through a range of collaborative discussions.

English IV - AP - Literature & Composition (0140AP) (NCAA Approved Course) Dual Enrollment - Ocean County College

Gr. 12

Credits: 10

PREREQUISITE(S): Final average of 85 or higher in English III Honors or final average of 80 or higher in English III AP and meets expectation on NJSLA ELA; Teacher Recommendation; writing sample.

DESCRIPTION OF COURSE: An AP English Literature and Composition course engages students in the careful reading and critical analysis of imaginative literature. Through the close reading of selected texts, students deepen their understanding of the ways writers use language to provide both meaning and pleasure for their readers. As they read, students consider a work's structure, style and themes, as well as such smaller-scale elements as the use of figurative language, imagery, symbolism and tone. The Advanced Placement English Literature and Composition Exam is taken in May.

English IV - Honors (0140) (NCAA Approved Course)

Gr. 12

Credits: 5

PREREQUISITE(S): Final average of 90 or higher in English III or Final average of 80 or higher in English III Honors; Teacher Recommendation; writing sample.

DESCRIPTION OF COURSE: English IV Honors is an accelerated course that prepares the student for college and career readiness. Students will read and comprehend literature, including stories, dramas, and poems and literary nonfiction, at the high end of the grades 11-CCR text complexity band independently and proficiently. Students will write arguments to support claims in an analysis of substantive topics or texts, using valid reasoning and relevant and sufficient evidence; informative/explanatory texts to examine and convey complex ideas, concepts, and information clearly and accurately through the effective selection, organization, and analysis of content; and narrative to develop real or imagined experiences or events using effective technique, well-chosen details, and well-structured event sequences. Students will refine their speaking and listening skills through a range of collaborative discussions.

English IV (0141) (NCAA Approved Course)

Gr. 12

Credits: 5

PREREQUISITE(S): No

DESCRIPTION OF COURSE: Students in this course will be prepared to be college and career ready. Students will read and comprehend literature, including stories, dramas, and poems and literary nonfiction, at the high end of the grades 11-CCR text complexity band independently and proficiently. Students will write arguments to support claims in an analysis of substantive topics or texts, using valid reasoning and relevant and sufficient evidence; write informative/explanatory texts to examine and convey complex ideas, concepts, and information clearly and accurately through the effective selection, organization, and analysis of content; and write narratives to develop real or imagined experiences or events using effective technique, well-chosen details, and well-structured event sequences. Students will refine their speaking and listening skills through a range of collaborative discussions.

Creative Writing (0194) (Pending NCAA Approval)

Gr. 9, 10, 11, 12

Credits: 2.5

PREREQUISITES: None

DESCRIPTION OF COURSE: Students will discover their narrative voices through creative writing. This course will offer students an opportunity to develop techniques for writing various forms of fiction and poetry. Students will explore and analyze the works of various and multicultural authors and poets by reading novels, short stories, and poetry. Students will be encouraged to write and submit work to different publications.

Journalism (0197) (Pending NCAA Approval)

Gr. 9, 10, 11, 12

Credits: 2.5

PREREQUISITES: None

DESCRIPTION OF COURSE: Students will be introduced to the exciting world of print, online, and broadcast media. Law, ethics, and the history of journalism complement the major units of study: reporting, writing, editing, photography, advertising, design, management, and teamwork.

Public Speaking (0195) (Pending NCAA Approval)

Gr. 9, 10, 11, 12

Credits: 5

PREREQUISITES: None

DESCRIPTION OF COURSE: Students will demonstrate an understanding and application of the techniques used in formal public speaking including listening skills, speech preparation and research methods

ENGLISH FOR ENGLISH LANGUAGE LEARNERS

For those students who have not yet exited the ESL program in LHS, we offer *English for English Language Learners* courses which are aligned to the **NJ Student Learning Standards** for English Language Arts and are taught at a level and pace appropriate for non-native speakers of English. There is a focus on reading both fiction and non-fiction and writing responses to what has been read. Students learn the vocabulary of discussing literature and other writings as well as grammar and vocabulary related to the readings.

Newcomer Program (0188)

Gr. 09,10,11,12

Credits: 5

PREREQUISITE(S): Multiple criteria for student eligibility is based on English Language Proficiency (ELP), as determined by the **WIDA score**. Academic delays of 2 or more years or interrupted formal education as determined by school records and report cards.

DESCRIPTION OF COURSE: The newcomer program is intended for newly arrived ELL students who have significant gaps in their formal education and/or are a minimum of three grade levels behind. Students will be taught below-level content area skills using adaptive computer-based programs and supplemental materials as well as receive intensive ESL instruction on a daily basis. Students' progress will be monitored and assessed every six to eight weeks. After each cycle of assessment, new objectives will be implemented by the classroom teacher, until students can transition into a full, general education class schedule. Social Studies - Newcomer Social Studies (0188E), Pre Algebra - Newcomer Math (0188B), Science - Newcomer Science (0188D), and Language Arts - Newcomer English (0188C)

English for English Language Learners I (0183A)

Gr. 09,10,11,12

Credits: 5

PREREQUISITES: Placement by WIDA score and/or teacher recommendation

DESCRIPTION OF COURSE: EELL I is the ESL equivalent of English I (ELA) for entering non-native speakers. Students will have alignment with the regular HS English core curriculum in order to bring the students towards a HS level of proficiency but designed for the ELL student who has entering language skills. Beginning comprehension skills of fiction and non-fiction genres, as well as literary devices and components will be addressed. Beginner level spoken and written presentations will be assigned to reinforce learned skills and develop fluency in relating to texts on a variety of levels. Just as in the equivalent ESL classes, there will be a continued emphasis on vocabulary and grammar development in relation to the various reading and writing tasks.

English for English Language Learners II (0184)

Gr. 09,10,11,12

Credits: 5

PREREQUISITES: None or EELL I, also placement by WIDA score and/or teacher recommendation

DESCRIPTION OF COURSE: EELL is the ESL equivalent of English (ELA) for emerging non-native speakers. Students will have alignment with the regular HS English core curriculum in order to bring the students towards a HS level of proficiency but designed for the ELL student who has emerging language skills. Continued development of comprehension skills in fiction and non-fiction genres, as well as literary devices and components will be addressed. Higher level spoken and written presentations will be assigned to reinforce learned skills and develop fluency in relating to texts on a variety of levels. Just as in the equivalent ESL classes, there will be a continued emphasis on vocabulary and grammar development in relation to the various reading and writing tasks.

English for English Language Learners III (0185)

Gr. 09,10,11,12

Credits: 5

PREREQUISITES: None or EELL II, also placement by WIDA score and/or teacher recommendation

DESCRIPTION OF COURSE: EELL III is the ESL equivalent of English (ELA) for developing non-native speakers. Students will have alignment with the regular HS English core curriculum in order to bring the students towards a HS level of proficiency but designed for the ELL student who has emerging language skills. Continued development of comprehension skills in fiction and non-fiction genres, as well as literary devices and components will be addressed. Higher level spoken and written presentations (focusing on the 5 paragraph essay) will be assigned to reinforce learned skills and develop fluency in relating to texts on a variety of levels. Just as in the equivalent ESL classes, there will be a continued emphasis on vocabulary and grammar development in relation to the various reading and writing tasks. Comprehension skills will be addressed and strengthened as continued preparation for state mandated tests and entrance into the mainstream classroom.

English for English Language Learners IV (0186)

Gr. 09,10,11,12

Credits: 5

PREREQUISITES: None, or EELL III, also placement by WIDA score and/or teacher recommendation

DESCRIPTION OF COURSE: EELL IV is the ESL equivalent of English (ELA) for expanding non-native speakers. Students will have alignment with the regular HS English core curriculum in order to bring the students towards a HS level of proficiency but designed for the ELL student who has expanding language skills. Continued development of comprehension skills in fiction and non-fiction genres, as well as literary devices and components will be addressed. Higher level spoken and written presentations (focusing on the 5 paragraph essay) will be assigned to reinforce learned skills and develop fluency in relating to texts on a variety of levels. Just as in the equivalent ESL classes, there will be a continued emphasis on vocabulary and grammar development in relation to the various reading and writing tasks. Comprehension skills will be addressed and strengthened as continued preparation for state mandated tests and entrance into the mainstream classroom.

Senior Workshop (0190)

Gr. 12

Credits: 5

PREREQUISITES: Assisted, individualized instruction and resources prepared by the Senior Workshop teacher, based on individual reason(s) for referral.

DESCRIPTION OF COURSE: Senior Workshop is a credited English Language Arts elective course; assisted individual instruction. Content includes but is not limited to: College exploration, Career exploration, College applications/essay, Interview skills, and enrichment or remediation of specific Language Arts skills or other related academic areas.

MATHEMATICS

The nature of mathematics instruction demands that standards be addressed at many levels and in many units throughout a grade level. Students will need to learn a strategy or skill and apply it in varying circumstances and within varying levels of complexity. Sometimes the skill is applied through reading and solving real life applications, but there are many ways that students acquire skills. Each course consists of five units and each unit culminates in a State Assessment that assesses the mastery of the skills taught. Each course is strictly aligned to the Common Core State Standards in order to prepare all students for the Partnership for Assessment of Readiness for College and Careers (PARCC).

Algebra I (0311) (NCAA Approved Course)

Gr. 09

Credits: 5

PREREQUISITE(S): None

DESCRIPTION OF COURSE: This course provides necessary concepts for students to succeed in advanced courses. This instructional program will provide a wide range of problem solving situations and concepts throughout the course. Students will be introduced to polynomial functions and graphs. Factoring will also be studied and stressed in depth. The following topics will be included: operations on real numbers, linear, quadratic, and exponential equations, linear systems, and inequalities, relations and functions, and polynomials.

Bilingual Algebra I (0189)

Gr. 09, 10, 11, 12

Credits: 5

PREREQUISITE(S): None. Successful Completion of Pre-Algebra recommended.

DESCRIPTION OF COURSE:

Bilingual Algebra 1 is the critical element in secondary mathematics education for bilingual students. The topics will be taught in students' native language, Spanish. Topics introduced in Algebra 1 provide the foundation that students require for future success in high school mathematics, critical thinking, and problem solving. The primary goal in Algebra 1 is to help students transfer their concrete mathematical knowledge to more abstract algebraic generalizations. Algebra 1 topics include recognizing and developing patterns using tables, graphs and equations. In addition, students will explore operations in algebraic expressions, apply mathematical properties to algebraic equations. Students will solve problems using equations, graphs and tables to investigate linear relationships. This course will follow the State Mathematical Standards and prepare them to take the NJSLA-Mathematic test.

Algebra I (10-12) (0378)

Gr. 10, 11, 12

Credits: 5

PREREQUISITE(S): Eligible grades/scores

DESCRIPTION OF COURSE: This course provides necessary concepts for students to succeed in advanced courses. This instructional program will provide a wide range of problem solving situations and concepts throughout the course. Students will be introduced to polynomial functions and graphs. Factoring will also be studied and stressed in depth. The following topics will be included: operations on real numbers, linear, quadratic, and exponential equations, linear systems, and inequalities, relations and functions, and polynomials.

Algebra II Honors (0330) (NCAA Approved Course)

Gr.10

Credits: 5

PREREQUISITE(S): Final average of 90 or higher in Geometry Honors or 85 or better in Geometry Honors with teacher recommendation, 95 or higher in Geometry, 85 or higher in Geometry with teacher recommendation

DESCRIPTION OF COURSE: Further study of algebraic concepts is done stressing quadratic (including complex solutions), polynomial, exponential, radical, rational, and trigonometric expressions, functions, and equations. Functions are represented, graphically, numerically, verbally, and by using function notation. The honors level course covers each topic in more depth.

Algebra II (0331) (NCAA Approved Course)

Gr. 10, 11, 12

Credits: 5

PREREQUISITE(S): Successful completion of Algebra I.

DESCRIPTION OF COURSE: Further study of algebraic concepts is done stressing quadratic (including complex solutions), polynomial, exponential, logarithmic, radical, rational, and trigonometric expressions, functions, and equations. Functions are represented, graphically, numerically, verbally, and by using function notation.

Geometry Honors (0320) (NCAA Approved Course)

Gr. 9

Credits: 5

PREREQUISITE(S): 90 or higher in Algebra I Honors or 80 or higher in Algebra 1 with teacher recommendation.

DESCRIPTION OF COURSE: Geometry Honors is an accelerated course that prepares the student for subsequent Math Honors classes and AP classes. Definitions, postulates, theorems and proofs of geometric figures are studied alone and extended to the coordinate graph. Topics include concepts of congruency and similarity; ratio relationships applied to segments, basic trigonometric functions, areas, volumes and densities; and using these concepts and relationships to describe and represent real world situations and problem solving strategies. The honors level course covers each topic in more depth.

Geometry (0321) (NCAA Approved Course)

Gr. 10, 11,12

Credits: 5

PREREQUISITE(S): Successful completion of Algebra I

DESCRIPTION OF COURSE: Definitions, postulates, theorems and proofs of geometric figures are studied alone and extended to the coordinate graph. Topics include concepts of congruency and similarity; ratio relationships applied to segments, basic trigonometric functions, areas, volumes and densities; and using these concepts and relationships to describe and represent real world situations and problem solving strategies.

Statistics (0334) (Pending NCAA Approval)

Gr. 11, 12

Credits: 5

PREREQUISITE(S): Algebra II

DESCRIPTION OF COURSE: An introductory level course for non-mathematics majors who need or desire a working knowledge of statistics. This course is oriented towards all fields in which statistics finds applications. Topics include: summarizing data, probability, normal and binomial distributions, hypothesis testing, confidence intervals and correlation.

Pre-Calculus Honors (0340) (NCAA Approved Course)

Gr. 11

Credits: 5

PREREQUISITE(S): Final average of 90 or higher in Algebra 2 Honors or 85 or better in Algebra 2 Honors with teacher recommendation.

DESCRIPTION OF COURSE: An advanced algebra review is given. Families of functions including exponential, logarithmic, radical, rational, and trigonometric functions are studied in depth; applications of functions are analyzed. Methods for solving linear systems, including the use of matrices and determinants are introduced. Analytic geometry including circles, parabolas, hyperbolas, and ellipses are studied.

Math Foundations for College (0380)

Gr. 11, 12

Credits: 5

PREREQUISITE(S): Pass Algebra II

DESCRIPTION OF COURSE: This course builds on the concepts of Algebra and Geometry. It is designed to facilitate the transition from high school to college through the preparation of core college math topics. Topics include arithmetic operations, fractions, decimal numbers, percentages, signed numbers and applications of basic computational skills necessary to solve problems encountered with life and work situations.

AP Calculus AB (0360) (NCAA Approved Course) Dual Enrollment - Ocean County College

Gr. 11, 12

Credits: 5

PREREQUISITE(S): 95 or better in Precalculus Honors, 90 or better in Pre-Calculus Honors and teacher recommendation. Score of 80 or higher on readiness assessment.

DESCRIPTION OF COURSE: Limits, derivatives and integrals are introduced and applied. Applications of derivatives and integrals are discussed. All students enrolled in this course are expected to take the AP exam in May.

AP Calculus BC (0370) (NCAA Approved Course) Dual Enrollment - Ocean County College

Gr. 12

Credits: 5

PREREQUISITE(S): 90 or better in Calculus AB, 80 or better in Calculus and teacher recommendation

DESCRIPTION OF COURSE: Power and Taylor Series, Taylor's Theorem, Convergence, Parametric and Polar Function, and Vectors are introduced and applied. All students enrolled in this course are expected to take the AP exam in May.

COMPREHENSIVE HEALTH AND PHYSICAL EDUCATION

The NJ Department of Education requires Comprehensive Health and Physical Education for each year that a child attends school. The state graduation requirements mandate that student receive at least 3.75 credits in Health, Safety, and Physical Education during each year of enrollment, distributed as 150 minutes per week, as required by N.J.S.A. 18A:35-5, 7 and 8.

Physical Education I, II, III, IV

Gr: 09,10,11,12

Credits: 5

PREREQUISITE(S): No

DESCRIPTION OF COURSE: Physical Education I through IV is a New Jersey Department of Education state requirement for graduation for all students. Students are permitted to choose activities for co-educational participation on a rotating basis. The process allows students to be exposed to a variety of sports, rules of play, and fitness components. The program includes the fundamentals of physical education through the accomplishments of clearly defined and acceptable behavioral and developmental patterns. Primary focus is placed on the psychomotor domain and physical fitness, but includes knowledge and comprehension of sports, and a healthy lifestyle. Seasonal sports are as follows: Badminton, Table Tennis, Soccer, Football, Softball, Basketball, Volleyball, Floor Hockey, Weight Room, Indoor Soccer, Track Fitness, and Pickleball. Track fitness is offered year round. **Students are assigned 3 marking periods of Physical Education and 1 marking period of Health each year.**

Health I (1010)

Gr: 09

PREREQUISITE(S): No

DESCRIPTION OF COURSE: This course covers the following units: Personal Growth and Development, Pregnancy and Parenting, Alcohol Tobacco and other Drugs, Dependency, Substances Disorder, and Treatment, and Personal Safety. All students in grades 9-12 will participate in the district's Health & Physical Education program; however, parents/guardians must "Opt-in" if they would like their child to participate in the Social and Sexual Health and Pregnancy and Parenting components of the program. Parents/Guardians will be provided with an Opt-in form that must be completed and returned to their child's school. Students are educated to promote positive attitudes and tolerance toward others. Successful completion of this course is a NJ State graduation requirement.

Health II (Drivers Education) (1020)

Gr: 10

PREREQUISITE(S): No

DESCRIPTION OF COURSE: Driver's education includes classroom theory, road safety and proper handling of a vehicle. Highway safety is also covered in preparation for the state test. After 30 hours of class work students may qualify to take the state test. In passing the state knowledge test, students will receive a special learner's permit. Successful completion of this course is a NJ State graduation requirement.

Health III (1030)

Gr: 11

PREREQUISITE(S): No

DESCRIPTION OF COURSE: This course covers the following units: Nutrition, Community Health Service and Support, CPR and First Aid, and Health Conditions Diseases and Medicines, Students will receive the basic concepts for 1st aid, AED & CPR training. Mannequins are provided to practice proper lifesaving techniques including the Heimlich maneuver. Proper nutrition, health conditions, diseases and medicines will also be covered to promote a healthy lifestyle and life-long habits. Successful completion of this course is a NJ State graduation requirement.

Health IV (1040)

Gr: 12

PREREQUISITE(S): No

DESCRIPTION OF COURSE: This course covers the following units: Emotional Stress, Community Health Services and Support, Social and Sexual Health, and Safety. All students in grades 9-12 will participate in the district's Health & Physical Education program; however, parents/guardians must "Opt-in" if they would like their child to participate in the Social and Sexual Health and Pregnancy and Parenting components of the program. Parents/Guardians will be provided with an Opt-in form that must be completed and returned to their child's school. Students will investigate the causes of stress, suicide, violence, bullying, and drug abuse. They will also study healthy mental health, fetal development and family relationships, STDs & HIV, abstinence and contraceptives. Career and educational choices will be investigated in preparation for graduation. This course reinforces studies from freshmen year and current social health issues in this changing society. Successful completion of this course is a NJ State graduation requirement.

TEEN PEP HEALTH/GENERAL EDUCATION ELECTIVE

Gr: 11, 12

Credits: 5

PREREQUISITE(S): Teacher Recommendation, Application, Interview

DESCRIPTION OF COURSE: Teen Pep is a health elective offered to qualifying 11th and 12th grade students. It meets daily. The structured 16 unit curriculum focuses on a number of topics including team communication, presentation and facilitation skills, understanding gender and gender roles, puberty education, postponing sexual involvement, birth control methods, understanding and preventing HIV and other STI's, as well as other current sexual health topics. The course meets Core Content Standards and is designed for students to educate other students. Students must complete an application and interview process. They are required to receive teacher recommendation to be selected to participate in this leadership course.

SOCIAL STUDIES

The purpose of social studies education is to provide students with the knowledge, skills and attitude they need to be active, informed, responsible citizens and contributing members of their communities. The Lakewood High School Social Studies Program has been developed to meet the needs of all learners. The curriculum correlates to the New Jersey Core Curriculum Content Standards for Social Studies. The vision of the social studies standards is one that fosters, for all students, the ability to understand their world and to have an appreciation for the heritage of America with a high degree of literacy in civics, history, economics and geography.

Modern World History Honors (0262) (NCAA Approved Course)

Gr.09

Credits: 5

PREREQUISITE(S): Final Average of 90 or higher in 8th grade Social Studies **and** English courses; NJASK 8 score of 230 or above; Teacher recommendation.

DESCRIPTION OF COURSE: Modern World History is a full year, state mandated course for all students in 9th grade. This course is a survey of world civilizations from the early modern period to the present. Emphasis is placed on significant periods of the world's societies, their contributions and the interaction between them: cultural, religious, economic and political. Students will gain a deeper understanding of cultural diversity and historical trends that have helped shape today's world. Extensive reading, research and writing will be required.

Modern World History (0261) / World History 10-12 (0221) (NCAA Approved Course)

Gr.09 and Gr. 010-12

Credits: 5

DESCRIPTION OF COURSE: Modern World History is a full year, state mandated course for all students in 9th grade. This course is a survey of world civilizations from the early modern period to the present. Emphasis is placed on significant periods of the world's societies, their contributions and the interaction between them: cultural, religious, economic and political. Students will gain a deeper understanding of cultural diversity and historical trends that have helped shape today's world.

American History I Honors (0230) (NCAA Approved Course)

Gr. 10

Credits: 5

PREREQUISITE(S): Final average of 90 or higher in Modern World History **and** English I or final average of 85 or higher in Modern World History Honors **and** English I Honors; Teacher recommendation.

DESCRIPTION OF COURSE: This is a state mandated, full year course required of all students for graduation. Each generation encounters and responds to persisting issues, conflicting ideas and new challenges. The study of history is the bridge, which connects the past with the present. American History I is a survey of the history of the United States from the discovery of the Western Hemisphere to the end of the Reconstruction period (1877). This course includes political, social and economic factors important to the foundation of America. There are five units of study composing the course: the Colonial Era, the American Revolution, Nationalism, Manifest Destiny, Civil War and Reconstruction. Extensive reading, research and writing will be required.

American History I (0231) (NCAA Approved Course)

Gr. 10

Credits: 5

PREREQUISITE(S): No

DESCRIPTION OF COURSE: This is a state mandated, full year course required of all students for graduation. Each generation encounters and responds to persisting issues, conflicting ideas and new challenges. The study of history is the bridge, which connects the past with the present. American History I is a survey of the history of the United States from the discovery of the Western Hemisphere to the end of the Reconstruction period (1877). This course includes political, social and economic factors important to the foundation of America. There are five units of study composing the course: the Colonial Era, the American Revolution, Nationalism, Manifest Destiny, Civil War and Reconstruction.

American History II Honors (0240) (NCAA Approved Course)

Gr. 11

Credits: 5

PREREQUISITE(S): Final average of 90 or higher in American History I and English II or final average of 85 or higher in American History I Honors and English II Honors; Teacher recommendation.

DESCRIPTION OF COURSE: This is a state mandated, full year course required of all students for graduation. American History II is the study of the centralizing ideas of our national experience as it has evolved from a somewhat isolated agrarian society to a post-industrial nation in an independent world. This course will examine American History from Reconstruction to the present rise of the United States as a world power.

There are six units of study composing the course: Reconstruction and Industrial Societies- the Gilded Age, Imperialism/WWI, Great Depression/WWII, Cold War & Post-War US, Era of Activism, and the 1980s to the Modern Era. Extensive reading, research and writing will be required.

American History II (0241) (NCAA Approved Course)

Gr. 11

Credits: 5

PREREQUISITE(S): No

DESCRIPTION OF COURSE: This is a state mandated, full year course required of all students for graduation. American History II is the study of the centralizing ideas of our national experience as it has evolved from a somewhat isolated agrarian society to a post-industrial nation in an independent world. This course will examine American History from Reconstruction to the present rise of the United States as a world power. There are six units of study composing the course: Reconstruction and Industrial Societies- the Gilded Age, Imperialism/WWI, Great Depression/WWII, Cold War & Post-War US, Era of Activism, and the 1980s to the Modern Era.

Macroeconomics (0248) (Pending NCAA Approval)

Gr. 11, 12

Credits: 2.5

PREREQUISITE(S): Successful completion of World History, American History I and American History II.

DESCRIPTION OF COURSE: This course would teach about the fundamental principles of macroeconomics, the origins of economic theories, and how the principles of these theories have been implemented in the modern world and influenced many major decisions in the history of the United States. This course meets the state Financial Literacy requirement.

Microeconomics (0249) (Pending NCAA Approval)

Gr. 11, 12

Credits: 2.5

PREREQUISITE(S): Successful completion of Macroeconomics.

DESCRIPTION OF COURSE: This course would teach about the fundamental principles of microeconomics and builds on concepts introduced in macroeconomics. Students will study the price system, market structures, and consumer theory. Topics covered include supply and demand, price controls, public policy, the theory of the firm, cost and revenue concepts, forms of competition, elasticity, and efficient resource allocation, among others and their impact on many major decisions in the history of the United States. This course meets the state Financial Literacy requirement.

.American Government and Politics (0250) (NCAA Approved Course)

Gr. 11, 12

Credits: 2.5

PREREQUISITE(S): Successful completion of Modern World History and United States History I.

DESCRIPTION OF COURSE: This is a half-year, elective course designed to help the student understand the structure of American government and the nature of American democracy. The course will examine the American legislative, executive, and judicial systems with a special emphasis on the basic freedoms provided by the Bill of Rights and how these rights function in the context of our modern society. Activities include frequent discussion, role-playing sessions, debate, and mock trials. This course also reviews the historical background to the Constitutional Convention of 1787 as preparation for a careful, step-by-step study of the United States Constitution and the operation of the three branches of the government, including basic principles such as federalism, separation of powers, the system of checks and balances, and judicial review.

Psychology (0224) (Pending NCAA Approval)

Gr. 11, 12

Credits: 2.5

PREREQUISITE(S): Successful completion of World History, American History I and American History II.

DESCRIPTION OF COURSE: This course focuses on introducing students to the systematic and scientific study of human behavior and mental processes.

Sociology (0225) (NCAA Approved Course)

Gr. 11, 12

Credits: 2.5

PREREQUISITE(S): Successful completion of World History, American History I and American History II.

DESCRIPTION OF COURSE: Sociology is a half-year, elective course focusing on the systematic understanding of social interaction, social organization, social institutions, and social change. Major themes in sociological thinking include the interplay between the individual and society, how society is both stable and changing, the causes and consequences of social inequality, and the social construction of human life. Understanding sociology helps students discover and explain social patterns and see how such patterns change over time and in different settings. By making vivid the social basis of everyday life, sociology also develops critical thinking by revealing the social structures and processes that shape diverse forms of human life.

(AP US History) Advanced Placement United States History (0264) (NCAA Approved Course) Dual Enrollment - Ocean County College

Gr. 12

Credits: 5

PREREQUISITE(S): Final average of 90 or higher in American History II and English III. PSAT Critical Reading & Writing score of 115 or higher. Teacher recommendation

DESCRIPTION OF COURSE: AP U.S. History is designed to be the equivalent of a two semester introductory college or university U.S. History course. The AP U.S. History course focuses on developing students' understanding of American history from approximately 1491 to the present. The course has students investigate the content of U.S. history for significant events, individuals, developments, and processes in nine historical periods, and develop and use the same thinking skills and methods (analyzing primary and secondary sources, making historical comparisons, chronological reasoning, and argumentation) employed by historians when they study the past. The course also provides seven themes (American and national identity; migration and settlement; politics and power; work, exchange, and technology; America in the world; geography and the environment; culture and society) that students explore throughout the course in order to make connections among historical developments in different times and places.

SPECIAL EDUCATION

The Special Education Department at LHS offers a wide range of programs designed to meet the needs of students based on each student's IEP (Individualized Education Plan.) The Child Study Team works collaboratively with district staff, parents and students to provide academic programs appropriate for each student. Students can be placed in regular education classes, with or without support from a certified Special Education teacher, and follow the general education curriculum to the extent deemed appropriate. When a student's needs are such that this type of placement are not meeting the needs of the student, other educational, career and vocational placements are available. Such as, smaller class size .

SCIENCE

The Science Department offers a wide range of courses designed to meet the needs of all students. The requirements for graduation include at least 15 credits or three lab science classes. The incoming freshmen are required to take Biology I while the sophomores are required to take Chemistry or Physical Science, followed by Physics or AP Physics. These classes are designed to prepare 11th grade students to successfully complete the NJSLA-S (New Jersey Student Learning Assessment - Science Test). The Science courses offered emphasize academic excellence and foster the importance of developing each student's potential for scientific achievement. The importance of "science literacy" in our advanced technological society places demands on the educational system to produce graduates with the ability to comprehend and function effectively in our society.

Environmental Science (0437) (NCAA Approved Course)

Gr. 11, 12

Credits: 5

PREREQUISITE(S): Successful completion of Biology and Chemistry

DESCRIPTION OF COURSE: Students with an interest in the environment will get to express their positions on current issues such as: Ozone Depletion, the Greenhouse Effect, the Human population Explosion, Endangered Species, the Rainforest, the Energy Crisis, and the wise use of Natural Resources. This introduction of the concepts of Ecology and Biological Science and their impact on the environment will assist the student in being able to make informed decisions regarding environmental studies.

Through studying the ecology of New Jersey, students become aware of the environmental problems characteristic of our state, and develop skills that may help them solve these and global environmental questions.

Accelerated Biology (H) (0420) (NCAA Approved Course)

Gr. 09

Credits: 5

PREREQUISITE(S): Teacher recommendation.

DESCRIPTION OF COURSE: Honors Biology will develop crucial reasoning in the student, using the study of life sciences as a vehicle to accomplish this. As the student studies the diversity of type and unity of pattern among living things, he/she focuses on the continuity of life and the relationship between an organism and its environment.

Biology (0421) (NCAA Approved Course)

Gr. 09

Credits: 5

PREREQUISITE(S): None

DESCRIPTION OF COURSE:

Some of the areas to be studied include: Nature of life, Chemistry of Life, Ecology, Cellular processes, Genetics, and Evolution. Students will utilize microscopes to study cells, use the laboratory to investigate cellular processes, prepare 3-dimensional models, and research specialized cells. This course emphasizes the New Jersey Science Content Standards to help prepare students for the NJSLA- Science Assessment, which is a required state assessment taken in the grade 11.

Bilingual Biology (2421)

Gr. 09, 10, 11, 12

Credits: 5

PREREQUISITE(S): None

DESCRIPTION OF COURSE: Bilingual Biology is a course that opens an opportunity for bilingual students to develop scientific process skills, laboratory techniques, and an understanding of the fundamental principles of living organisms in their primary language, Spanish. Students will investigate biological systems at the molecular, cellular, and microbiological level. Hands-on laboratory exercises incorporating cellular biology, genetics, DNA technology, evolution, and ecology will be provided to assist students in their understanding of biological themes. This course will follow the Next Generation Science Standard and prepare them to take the NJSLA-S test.

Biology 10-12 (0422) (NCAA Approved Course)

Gr. 10, 11, 12

Credits: 5

PREREQUISITE(S): Eligible Grades/Scores.

DESCRIPTION OF COURSE: This course emphasizes the New Jersey Science Content Standards to help prepare students for the End of Course Biology test, which is a required state assessment taken in the 4th marking period.

Some of the areas to be studied include: Nature of life, Chemistry of Life, Ecology, Cellular processes, Genetics, and Evolution. Students will utilize microscopes to study cells, use the laboratory to investigate cellular processes, prepare 3-dimensional models, and research specialized cells

Chemistry Honors (0430) (NCAA Approved Course)

Gr. 10

Credits: 5

PREREQUISITE(S): Successful completion of Biology Honors with a "B" or better, or recommendation from Biology teacher. Successful completion of a teacher-taught Algebra I course with a "B" or better. No online courses will be honored.

DESCRIPTION OF COURSE: Students will gain an understanding of the structure and behavior of matter. The course will lead students from their experiences with states and properties of matter, to the development of models of the atom and the underlying principles of chemistry. Chemistry investigates the following topics; physical states of matter, the periodic table of elements, ionic and covalent bonding, atomic theory, the mole and stoichiometry, nuclear radiation and decay, acids and bases, gas laws. Students will develop problem-solving, decision making, and inquiry skills, as well as integrate mathematics as a tool for problem-solving in science.

Chemistry (0431) (NCAA Approved Course)

Gr. 10, 11, 12

Credits: 5

PREREQUISITE(S): Successful completion of Biology and a teacher-instructed Algebra I course with a "C" or better. No online courses will be honored.

DESCRIPTION OF COURSE: Students will gain an understanding of the structure and behavior of matter. The course will lead students from their experiences with states and properties of matter, to the development of models of the atom and the underlying principles of chemistry. Chemistry investigates the following topics; physical states of matter, the periodic table of elements, ionic and covalent bonding, gas laws, atomic theory, law of conservation of mass and stoichiometry. Students will develop problem-solving, decision making and inquiry skills, as well as integrate mathematics as a tool for problem-solving in science.

Bilingual Chemistry (2422)

Gr. 10, 11, 12

Credits: 5

PREREQUISITE(S): Successful completion of Biology and Algebra I course.

DESCRIPTION OF COURSE: Bilingual Chemistry is an inquiry- based course that examines matter and the changes it undergoes. The course will attempt to give bilingual students a deeper understanding of the scientific processes that go on around them and the interconnections among the sciences, technology, society, and the environment in their native language, Spanish. This class will also aim to give them reading and studying strategies to help them become a more effective reader, learner and thinker. Topics to be studied include chemistry laboratory skills, the classification and structure of matter, ratio and proportion of chemical reactions, physical chemistry, acid-base chemistry, kinetics, thermodynamics, and electrochemistry. This course will follow the Next Generation Science Standard and prepare them to take the NJSLA-S test.

Anatomy & Physiology (0441)

Gr. 11, 12

Credits: 5

PREREQUISITE(S): Completion of Biology and Chemistry with a final grade of B or better. Detailed prerequisite online coursework must be reviewed (including all assessments in printed form) and approved prior to taking this course. Students taking this course will be dually enrolled at Ocean County College. Students will obtain 4 college credits upon successful completion of the course.

DESCRIPTION OF COURSE: Anatomy & Physiology is a college level one-year lab oriented course designed for the motivated, academically able student. The purpose of the course is to provide students with a basic comprehension of the organizational levels of the human body and the anatomy and physiology of the major organ systems and their interrelationships. Emphasis on the integumentary, skeletal, muscular, and nervous system will be a priority. Labs and activities are designed to reinforce the instructional material. Animal dissections as a skill and learning aid are required.

Horticulture (0438)

Gr. 11, 12

Credits: 5

PREREQUISITE(S): Students must have successfully completed Biology, Environmental Science, or Chemistry

DESCRIPTION OF COURSE: Ornamental plants are plants that we use in decorative and recreational applications. An ornamental horticulture program will prepare you for a range of career opportunities involving these plants, as well as, give you experience in growing crop plants used in food production and a working understanding of Botanical science. You might work at a garden center growing plants destined for customers' gardens and yards, tend grass and landscaping in a residential area or golf course, or design bouquets for special occasions at a floral shop.

Oceans I (0435) (NCAA Approved Course)

Gr. 11, 12

Credits: 2.5

PREREQUISITE(S): Successful completion of Biology and Chemistry or Environmental Science.

DESCRIPTION OF COURSE: Oceans 1 is designed to acquaint students with a basic knowledge of oceanography. Field trips, lab work and films will be used along with individual research projects. Some topics will include the physical and chemical properties of the oceans, configuration of the sea floor, continental drift, winds, waves and tides, plankton, nekton, and environmental concerns. These classes will also employ new technologies such as satellite imagery and buoy analysis to observe and track ocean changes.

Oceans II (0436) (NCAA Approved Course)

Gr. 11, 12

Credits: 2.5

PREREQUISITE(S): Successful completion of Oceans I.

DESCRIPTION OF COURSE: This class is a survey of the marine environment, the types of organisms found inhabiting a variety of marine habits, a look at the interactions between the organism living in diverse marine habitats, and the adaptations of the organisms to those habitats. Oceans II/Marine Science studies include the following: the ecology of pelagic and benthic organisms, including those from rocky coast, unconsolidated shores, coral reefs; island biology, benthic plants and phytoplankton; zooplankton and nekton; marine invertebrates, fishes, reptiles, and mammals; marine productivity and fisheries; marine pollution and conservation. **(Emphasis on Marine Science)**

Astronomy (0469) (Pending NCAA Approval)

Gr. 11, 12

Credits: 5

PREREQUISITE(S): Students must have successfully completed Biology, Environmental Science, or Chemistry

DESCRIPTION OF COURSE: This course introduces students to the study of astronomy, including its history and development, basic scientific laws of motion and gravity, the concepts of modern astronomy, and the methods used by astronomers to learn more about the universe. Additional topics include the solar system, the Milky Way and other galaxies, and the sun and stars. Using online tools, students examine the life cycle of stars, the properties of planets, and the exploration of space

Physics (0471) (NCAA Approved Course)

Gr. 11, 12

Credits: 5

PREREQUISITE(S): Successful completion of Chemistry (with a 75 or higher), Algebra I, and Geometry. Concurrently taking Algebra II or Pre-Calculus.

This course is a mathematical approach to the science of physics. The emphasis will be placed in developing the critical mental and analytical skills that students will need if they are to move on to college. Potential students should be adept at using and applying algebra, geometry, and trigonometry and possess a natural intuitive talent toward understanding physical science concepts and theories.

A major part of the year will be devoted to a study of mechanics: motion, forces, gravity, projectiles, energy, and momentum. Another major topic will be electromagnetism: electric and magnetic forces, fields, potentials, and circuits. The last topic to be covered will be waves, sound, and light. Heavy emphasis will be placed on lab activities making use of computers to collect and analyze data as well as create and run simulations of physical events. Students will need access to the internet, to work on material away from the classroom.

AP Biology (NCAA Approved Course)

Gr. 12

Credits: 10

PREREQUISITE(S): Successful completion, with a "B" or better in Biology, Chemistry, Algebra I, II, and Geometry

DESCRIPTION OF COURSE; The student learns many of the methods and works with many of the tools of modern investigation. The course emphasizes biochemical pathways, molecular genetics, evolutionary processes and ecological interrelationships.

Principles of Biomedical Science (0442)
(Perkins Level I) (NCAA Approved Course)

Gr. 10 - Health Sciences Pathway

Gr. 10, 11

Credits: 5

PREREQUISITE(S): 70 or better in Biology

DESCRIPTION OF COURSE: In the introductory course of the PLTW Biomedical Science program, students explore concepts of biology and medicine to determine factors that led to the death of a fictional person. While investigating the case, students examine autopsy reports, investigate medical history, and explore medical treatments that might have prolonged the person's life. The activities and projects introduce students to human physiology, basic biology, medicine, and research processes while allowing them to design their own experiments to solve problems.

Human Body Systems (0443)
(Perkins Level 2) (NCAA Approved Course)

Gr. 11 - Health Sciences Pathway

Gr. 11, 12

Credits: 5

PREREQUISITE(S): Successful completion of Principles of Biomedical Sciences (PBS) with a 75 or better

DESCRIPTION OF COURSE: In the Human Body Systems (HBS) course, students examine the interactions of body systems as they explore identity, communication, power, movement, protection, and homeostasis. Students design experiments, investigate the structures and functions of the human body, and use data acquisition software to monitor body functions such as muscle movement, reflex and voluntary action, and respiration. Exploring science in action, students build organs and tissues on a skeletal manikin, work through interesting real world cases, and often play the role of biomedical professionals to solve medical mysteries. Students practice problem solving with structured activities and progress to open-ended projects and problems that require them to develop planning, documentation, communication, and other professional skills.

Medical Intervention (0445)
(Perkins Level 3) (NCAA Approved Course)

Gr. 12 - Health Sciences Pathway

Credits: 5

PREREQUISITE(S): Successful completion of Principles of Biomedical Sciences (PBS) and Human Body Systems (HBS) with a 75 or better.

DESCRIPTION OF COURSE: Medical Interventions (MI) allows students to investigate the variety of interventions involved in the prevention, diagnosis, and treatment of disease as they follow the lives of a fictitious family. Students follow the fictitious Smith family as they learn about the prevention, diagnosis, and treatment of disease. Throughout the course, students play the role of biomedical professionals to analyze case information and diagnose and treat their patients. Investigate the medical interventions of the past and present, and begin to brainstorm the innovations of the future. A "How-To" manual for maintaining overall health and homeostasis in the body, the course will explore how to prevent and fight infection, how to screen and evaluate the code in our DNA, how to prevent, diagnose, and treat cancer, and how to prevail when the organs of the body begin to fail. Through these scenarios students will be exposed to the wide range of interventions related to immunology, surgery, genetics, pharmacology, medical devices, and diagnostics. Each family case scenario will introduce multiple types of interventions, reinforce concepts learned in the previous two courses, and present new content. Interventions may range from simple diagnostic tests to treatment of complex diseases and disorders. These interventions will be showcased across the generations of the family and will provide a look at the past, present, and future of biomedical science. Lifestyle choices and preventive measures are emphasized throughout the course as well as the important role that scientific thinking and engineering design play in the development of interventions of the future. Students practice problem solving with structured activities and progress to open-ended projects and problems that require them to develop planning, documentation, communication, and other professional skills.

Introduction to Engineering Design (0472)
(Perkins Level 2) (NCAA Approved Course)

Gr. 10 - Pre-Engineering Pathway

Credits: 5

Gr. 10, 11, 12

PREREQUISITE(S): Students need to be enrolled in an honors or AP math class.

DESCRIPTION OF COURSE: Introduction to Engineering Design (IED) is a high school level foundation course in the PLTW Engineering Program. In IED students are introduced to the engineering profession and a common approach to the solution of engineering problems, an engineering design process. Utilizing the activity-project-problem-based (APB) teaching and learning pedagogy, students will progress from completing structured activities to solving open-ended projects and problems that require them to develop planning, documentation, communication, and other professional skills. Through both individual and collaborative team activities, projects, and problems, students will solve problems as they practice common engineering design and development protocols such as project management and peer review. Students will develop skill in technical representation and documentation of design solutions according to accepted technical standards, and they will use current 3D design and modeling software to represent and communicate solutions. In addition the development of computational methods that are commonly used in engineering problem solving, including statistical analysis and mathematical modeling, are emphasized. Ethical issues related to professional practice and product development are also presented.

Principles of Engineering (0473)
(Perkins Level 2) (NCAA Approved Course)

Gr. 11 - Pre-Engineering Pathway

Credits: 5

Gr. 11, 12

PREREQUISITE(S): Students need to be enrolled in an honors or AP math class and have successfully Completed Introduction to Engineering Design.

DESCRIPTION OF COURSE: Principles of Engineering (POE) is a foundation course of the high school engineering pathway. This survey course exposes students to some of the major concepts that they will encounter in a postsecondary engineering course of study. Through problems that engage and challenge, students explore a broad range of engineering topics, including mechanisms, the strength of materials and structures, automation, and kinematics. The course applies and concurrently develops secondary level knowledge and skills in mathematics, science, and technology. Students have the opportunity to develop skills and understanding of course concepts through activity-, project-, and problem-based (APB) learning. By solving rigorous and relevant design problems using engineering and science concepts within a collaborative learning environment, APB learning challenges students to continually hone their interpersonal skills, creative abilities, and problem solving skills. Students will also learn how to document their work and communicate their solutions to their peers and members of the professional community. It also allows students to develop strategies to enable and direct their own learning, which is the ultimate goal of education.

Engineering Design & Development (0475)
(Perkins Level 3) (NCAA Approved Course)

Gr. 12 - Pre-Engineering Pathway

Credits: 5

PREREQUISITE(S): Students need to be enrolled in an honors or AP math class and have successfully Completed Principles of Engineering.

DESCRIPTION OF COURSE: Engineering Design and Development (EDD) is the capstone course in the PLTW high school engineering program. It is an open-ended engineering research course in which students work in teams to design and develop an original solution to a well-defined and justified open-ended problem by applying an engineering design process. Students will perform research to select, define, and justify a problem. After carefully defining the design requirements and creating multiple solution approaches, teams of students select an approach, create, and test their solution prototype. Student teams will present and defend their original solution to an outside panel. While progressing through the engineering design process, students will work closely with experts and will continually hone their organizational, communication and interpersonal skills, their creative and problem solving abilities, and their understanding of the design process. Engineering Design and Development is a high school level course that is appropriate for 12th grade students. Since the projects on which students work can vary with student interest and the curriculum focuses on problem solving, EDD is appropriate for students who are interested in any technical career path. EDD should be taken as the final capstone PLTW course since it requires application of the knowledge and skills introduced during the PLTW foundation courses.

WORLD LANGUAGES

Spanish is the available language selection offered to students in grades 9 – 12. Reading and writing skills, along with history and culture, are infused throughout the courses. Customs such as food, music, and the arts are also explored throughout Levels 1 – 4. Cultural studies emphasize grammar skills and real-life situations applied in the present and past tenses. Courses are designed to produce oral/aural proficiencies and vocabulary mastery.

SPANISH FOR NATIVE SPEAKERS/HERITAGE LANGUAGE

This program is designed for students whose native language is Spanish but who may not read or write it well. (Non-native Spanish speakers who take a placement test may also have the opportunity to take these classes.) These classes provide students with the opportunity to expand their existing first language oral proficiency while developing their reading and writing skills. Spelling and vocabulary development are stressed. Emphasis will be placed on academic language across content areas and professional settings. The goal is to support the learning of English as well through the expanded use of the native language. In these classes, students will learn Spanish through reading and writing about the history, culture and literature of Spanish-speaking countries. These Spanish courses meet the requirements of foreign language required to graduate. At the end of the third or fourth year, the student may have an opportunity to take the APPL exam in Spanish and receive a Seal of Biliteracy on his/her diploma.

Spanish for Native Speakers/Heritage Language I (0557) (NCAA Approved Course)

Gr. 09, 10

Credits: 5

PREREQUISITE(S): Placement test / Ability to understand and speak Spanish at/near native fluency / Teacher recommendation.

DESCRIPTION OF COURSE: This course is for students whose native or heritage language is Spanish but who are only fluent in *speaking* it as a “home” language. Students will use their speaking (and listening) fluency to develop their reading and writing skills in Spanish with the purpose of developing academic proficiency in Spanish. Students will study Hispanic geography, history, arts, culture, biography and current events throughout the Spanish-speaking world. Students will be introduced to the study of Spanish language grammar and literacy. Students will participate in both oral and written assignments and projects on a variety of topics. Reading development will look at Spanish-world literature in a variety of genres. Writing development will focus on sentence and paragraph structure with the goal of the completion of a three-paragraph essay.

Spanish for Native Speakers /Heritage Language II (0533) (NCAA Approved Course)

Gr. 10, 11

Credits: 5

PREREQUISITE(S): Placement test / completion of SNS I / Teacher Recommendation

DESCRIPTION OF COURSE: This course is a continuation for students whose native or heritage language is Spanish but who are only fluent in *speaking* it as a “home” language. In this developing course of **Spanish for Native Speakers**, students will use their speaking (and listening) fluency to continue to develop their reading and writing skills in Spanish with the purpose of developing academic proficiency in Spanish. Students will continue to study aspects of Hispanic geography, history, arts, culture, biography and current events throughout the Spanish-speaking world. Students will continue to explore the study of Spanish language grammar and literacy. Students will participate in both oral and written assignments and projects on a variety of topics. Reading development will look at Spanish-world literature in a variety of genres. Writing development will focus on sentence and paragraph structure with the goal of the completion of a five-paragraph expository and/or persuasive essay.

Spanish for Native Speakers /Heritage Language III Honors (0558) (NCAA Approved Course)

Gr. 11, 12

Credits: 5

PREREQUISITE(S): Placement test / completion of SNS II / Teacher recommendation

DESCRIPTION OF COURSE: This course is a continuation for students whose native or heritage language is Spanish but who are only fluent in *speaking* it as a “home” language. This course will also be open to those advanced students from other Spanish classes, whether native or second-language learners. In this expanding course of **Spanish for Native Speakers**, students will use their speaking (and listening) fluency to expand their reading and writing skills in Spanish with the purpose of developing academic proficiency in Spanish. Students will focus on the comparative study of Hispanic history and literature throughout the Spanish-speaking world. Students will be expected to use their prior studies of Spanish language, culture, grammar and literacy. Students will participate in both oral and written assignments and projects on a variety of topics. Reading development will focus on a comparative view of Spanish-world literature in a variety of genres. Writing development will focus on more complex paragraph structure with the goal of the completion of a five-paragraph expository and/or persuasive essay.

Spanish I (0521) (NCAA Approved Course)

Gr. 09, 10, 11, 12

Credits: 5

PREREQUISITE(S): No

DESCRIPTION OF COURSE: Spanish I is offered to all students and meets the NJ State World Language requirements for high school graduation. Students with little or no knowledge of the Spanish language are welcome. Skill sets include listening, speaking, reading and writing, and are taught within cultural context.

Spanish II Honors (0532) (NCAA Approved Course)

Gr. 09

Credits: 5

PREREQUISITE(S): Successful completion of the Spanish I World Language course; Proficiency at 90% or above, with teacher recommendation

DESCRIPTION OF COURSE: This course is designed to continue the first-level work begun in the 8th grade courses. The skill sets of listening, speaking, reading and writing, taught within a cultural context, are enhanced and taught at an accelerated pace.

Spanish II (0531) (NCAA Approved Course)

Gr. 10, 11, 12

Credits: 5

PREREQUISITE(S): Successful completion of the Spanish 1 with 65 or above.

DESCRIPTION OF COURSE: The Level II course is designed to continue first-level work. The four skill sets of listening, speaking, reading and writing, which are taught within cultural context in Level I, are enhanced.

Spanish III Honors (0535) (NCAA Approved Course)

Gr. 10, 11, 12

Credits: 5

PREREQUISITE(S): Successful completion of the second year course with proficiency of 80 or above and teacher recommendation

DESCRIPTION OF COURSE: This Level III course is designed for the student who wishes to broaden their knowledge of the four basic language skills. An in-depth study of the countries in which the target language is spoken is woven throughout the curriculum. Students are exposed to target language media, more formal structure and diverse literary forms.

Spanish IV Honors (0536) (NCAA Approved Course)

Gr. 11, 12

Credits: 5

PREREQUISITE(S): Successful completion of Spanish III Honors with proficiency of 80 or above and teacher recommendation

DESCRIPTION OF COURSE: This course continues to broaden the four basic language skills. Contemporary cultures are stressed throughout the course, along with Contemporary and Classical Literature. Short stories and plays are included to enhance the overall Spanish IV curriculum.

(AP Spanish) Advanced Placement Spanish Language and Culture (0540) (NCAA Approved Course) Dual Enrollment - Ocean County College

Gr. 12

Credits: 5

PREREQUISITE(S): Minimum grade of 90 in Spanish III Honors or SNS III; Teacher recommendation

1. **DESCRIPTION OF COURSE:** Students who are taking the course have demonstrated intermediate-high or advanced-low proficiency in oral and written Spanish on the STAMP test or similar test. This is an experience equivalent to that of a third-year college course. The course is taught in Spanish and the students are expected to speak in the language as well. Students are exposed to experiences to develop the four language-skills: reading, writing, listening and speaking using authentic materials. The course will expose students to a wide variety of genres and types of discourse and will enable students to trace the history from Spanish prose from Don Juan Manuel to modern times through some of its most brilliant practitioners. Student are given the opportunity to accelerate their academic careers as they may earn college credit in advanced placement based on individual AP test performance.

American Sign Language I (0560)

Gr. 09, 10, 11, 12

Credits: 5

PREREQUISITE(S): No

DESCRIPTION OF COURSE:

This course is an introduction to American Sign Language. Students will develop practical skills and knowledge for successful interactions with the Deaf community and culture, with an emphasis on basic expressive and receptive skills. Syllabus topics include: American Deaf Culture Awareness, fingerspelling, facial communication, and basic conversational skills. This course requires active student participation.

American Sign Language II (0561)

Gr. 10, 11, 12

Credits: 5

PREREQUISITE(S): American Sign Language I (0560)

DESCRIPTION OF COURSE:

This course will expand on building skills in American Sign Language using the skills that were previously learned in the American Sign Language I course. The materials and class instruction in this class will give students the opportunity to review and expand their key grammar skills in ASL. Students will also be able to expand their vocabulary on a range of topics while increasing narrative and conversational fluency.

Syllabus topics include: Expanding on skills learned in American Sign Language I class. Comparing aspects of ASL and English through translation exercises, comparing aspects of Deaf culture, American Culture and your culture. As well as understanding your role as an ASL student in the Deaf community. This course requires active student participation.

Option ii for Foreign Language Credits

Gr. 9-12

Students who are proficient in a language other than English may earn world language credits by taking the STAMP assessment. "STAMP" means Standards-based Measurement of Proficiency, which is a test that is delivered, graded, and reported online, and that assesses students' language proficiency from the "Novice-Low" to the "Intermediate-Mid" benchmark levels. Students who achieve the level of language proficiency designated as Novice-High as defined by the ACTFL are recognized as fulfilling the world languages requirement of the NJSLs.

Option ii for German, French, and Latin

Gr. 9-12

Students who are interested in taking a language that is not offered at Lakewood High School can opt to take one of the following courses through Edmentum, which is an online learning platform. The coursework would be completed as an independent study and will be built into the student's schedule. Course level objectives are achieved by completing each lesson's instruction, assignments and assessments. Each course consists of two semesters, which are each valued at 2.5 credits and must be completed in sequence of level I followed by level II.. See course catalog for descriptions [here](#).

German I (0562) German II (0563) French I (0564) French II (0565) Latin I (0566) Latin II (0567)

ENGLISH AS A SECOND LANGUAGE

The ESL courses offered in LHS are here to assist non-English speaking students in acquiring a knowledge of American English and culture. This will enable them to function to the best of their abilities both in their mainstream classes and out in the community. Our program is aligned to the WIDA standards and all students are given a test to determine their appropriate placement in an ESL classroom. Our program includes all four domains: listening, speaking, reading and writing skills in English. In LHS we have a great respect for the diversity of our many students and teach them to take pride in both their new language and their original home country's language and culture.

English as a Second Language I (0173A)

Gr. 09,10,11,12

Credits: 5

PREREQUISITES: None, placement by WIDA score and/or teacher recommendation

DESCRIPTION OF COURSE: ESL I is a class designed for entering non-native speakers and focuses on the four communication skills (listening, speaking, reading and writing), in that particular order, in English. Emphasis is placed on vocabulary development and cultural knowledge of the USA. Beginning grammar, simple sentences and short paragraph writing will be introduced. Speaking and conversational exercises will be assigned as a part of daily repertoire, to be able to function in and out of the school, community, as well as express needs and survive in an English speaking environment.

English as a Second Language II (0174)

Gr. 09,10,11,12

Credits: 5

PREREQUISITES: None or ESL 1, also placement by WIDA score and/or teacher recommendation

DESCRIPTION OF COURSE: ESL II is a class for emerging non-native speakers and focuses on the four communication skills (listening, speaking, reading and writing), in that particular order, in English. Emphasis is placed on continued vocabulary development and cultural knowledge of the USA as well as academic language of content areas based in readings. Complex sentences and paragraph writing will be extended to the organization of essay and letter writing. Grammar, speaking and conversational exercises will be assigned as a part of daily repertoire, to be able to function in and out of the school, community, as well as express needs and survive in an English speaking environment.

English as a Second Language III (0175)

Gr. 09,10,11,12

Credits: 5

PREREQUISITES: None or ESL 2, also placement by WIDA score and/or teacher recommendation

DESCRIPTION OF COURSE: ESL III is a class for developing non-native speakers and focuses on the four communication skills (listening, speaking, reading and writing with an emphasis placed on all the latter two skills. This is to ensure that students acquire the academic language skills necessary to access and meet the challenges of content area work in English. Additionally, these skills will help and guide students in their understanding and responding to daily communication, academic and social skills within school, and their immediate environment. Emphasis will be on reading comprehension, continued vocabulary and grammar development, additional cultural awareness of the USA and writing skills in preparation for mandated tests and in obtaining a High School Diploma. The writing process from pre-writing to revised and edited drafts will be developed in conjunction with EELL3.

English as a Second Language IV (0176)

Gr. 09,10,11,12

Credits: 5

PREREQUISITES: None, or EELL III, also placement by WIDA score and/or teacher recommendation

DESCRIPTION OF COURSE: ESL 4 is a class for expanding non-native speakers and focuses on the four communication skills (listening, speaking, reading and writing). Primary focus is on reading strategies related to extended texts and writing extended essays in the 5 paragraph format. Students in need of an extra year of preparation for obtaining their High School Diploma will continue vocabulary, grammar, writing and reading skills and test-taking strategies in preparation for mandated tests. Emphasis is placed on these skills to ensure that students acquire the maximum level of writing and reading skills. Obtaining these skills will further guide students in community involvement, job related skills and continuing education or vocational training which will be part of the learning process.

English as a Second Language V (0177)

Gr. 09,10,11,12

Credits: 5

PREREQUISITES: None, or ESL IV, also placement by WIDA score and/or teacher recommendation

DESCRIPTION OF COURSE: ESL 5 is intended for long-term ELLs who have completed the prior sections of ESL but have not yet attained a composite exit score of 4.5 or higher on the ACCESS for ELLs assessment. Students will continue to develop their receptive and expressive English language skills at the “expanding” and “bridging” levels of proficiency. Test-taking strategies and building students’ academic vocabulary will be an emphasis.

Visual Arts

The Art Department offers a variety of courses, some of which qualify for Perkins Grant funding. Art courses funded through the Perkins grant not only encourage students to explore and refine their talents and abilities, but also prepare students for college and career readiness through imbedded curriculum

Foundations of Art (0714) (Perkins Level 1)

Gr. 09, 10, 11, 12

Credits: 5

PREREQUISITE(S): No

DESCRIPTION OF COURSE: *This course is an introduction to all forms of art: drawing, painting, and design.*

Students will have the opportunity to work and create art using various types of mediums including pastel, charcoal, watercolor and more. This course is the foundation for the student that has a desire to pursue post-secondary study and those contemplating a career in art. Projects and class work will teach students the elements and principles of art and introduce them to the significance of artists and styles of art throughout history. The units and concepts covered include: The Elements of Art and Design, Color Theory, drawing techniques, proper etiquette and safety within the studio, constructive critique, individual interpretation, expression and creativity, Art History movements and the evolution of Visual art, The Principles of Art and Design, Introduction of various types of painting techniques, contemporary based art and skills, combining various mediums, and the preparation of artwork for public display.

Drawing and Painting (0715) (Perkins Level 2)

Gr. 10, 11, 12

Credits: 5

PREREQUISITE(S): C or higher in Foundations of Art, or teacher approval

DESCRIPTION OF COURSE: This course will build on the skills taught in Foundations of Art and is designed for students who desire to enhance their art skills and develop Fine Art and Design techniques at a more advanced level.

Students explore a variety of drawing materials to discover how they can be used. Students will learn object, figure, and landscaping drawing, problems in scale, spatial relationships, volume, light and shade. The development of complex procedures and concepts will be highly stressed and encouraged.

Graphic Design/Visual Media (0735) (Perkins Level 2)

Gr. 10, 11, 12

Credits: 5

PREREQUISITE(S): C or higher in Foundations of Art, or teacher approval

DESCRIPTION OF COURSE: In Graphic Design/Visual Media students will learn through their participation in a variety of real world production jobs, how to use equipment such as digital cameras, computer hardware and editing software. Covered in the course will be portrait, landscape, green screen editing, and photo manipulation. Students will use Adobe Photoshop which is the industry standard widely used in the field of Graphic Arts to create/modify their captured images. This course will prepare students for other occupational positions such as Multimedia Designer, Web Designer, Logo Designer, Illustrator, Flash Designer, Concept Artist, Photo Editor, and Photographer. At the conclusion of the course, students will produce digital portfolios to serve as a learning and evaluation tool.

Found Object Sculpture (0717)

Gr. 10, 11, 12

Credits: 5

PREREQUISITE(S): C or higher in Foundations of Art, or teacher approval

DESCRIPTION OF COURSE: This class would be an opportunity for students who are not naturally gifted drawers or painters to create in a tactile way. Many students find more success in a sculpture setting vs 2-dimensional art.

Studio Design and Commercial Art (0716) (Perkins Level 3)

Gr. 11, 12

Credits: 5

PREREQUISITE(S): Foundations of Art, Drawing & Painting or Graphic Design/Visual Media, with B or higher in Level 2, or teacher approval

DESCRIPTION OF COURSE: This course offers advanced study in design, drawing and painting techniques, and computer/digital applications. Students will learn typography, illustration, graphic design, advertising and marketing procedures. Projects used in connection with assignments will be individualized and result from student and teacher suggestions. Units and concepts covered will include: correlation between art and advertising, packaging design, company logo and product design, caricature art, cartooning, combining fine and digital art, the development of one's physical and digital portfolio, design software (Photoshop, Illustrator and In-Design), and the preparation of one's artwork for public display. Students will also develop workplace-readiness skills needed to function in art-related career fields such as design, advertising and marketing and will be introduced to the variety of ways the applications are utilized in studio or commercial work.

AP 2-D Studio Art (0740)

Gr. 12

Credits 5

PREREQUISITE(S): Grade of B or higher in Studio Design and Commercial Art, or teacher approval

DESCRIPTION OF COURSE: Advanced Placement is an elective course which meets all of the criteria of the College Board Advanced Placement Program. Work in the AP class will prepare students for the submission of their portfolios in the AP Examination. Course will encourage and guide students to fully develop their ability to create visual ideas, to understand and evaluate the work of others and to apply their understanding to their college studies. Students may choose to focus their concentration in one of the following areas: 2-Dimensional Design - Mixed Media; 2-Dimensional Design Drawing; or 2-Dimensional Design - Photography.

Performing Arts

The LHS Music curriculum is designed to provide instrumental music experiences for beginners through advanced musicians. Classes are also available to those students wishing to gain an overall appreciation of music as taught through culture and history, but do not play an instrument. Courses offered in the Music program provide students the opportunity to discover, understand, and enjoy Music as an art form, as well as a means of self-expression.

Dance I (0704)

Gr. 09, 10, 11, 12

Credits: 5

PREREQUISITE(S): No

DESCRIPTION OF COURSE: This course is an introduction to Dance and its many technique forms. Students are expected to strive for a strong, foundational understanding of the art in terms of physical movement, vocabulary, dynamics, rhythm, history and energy. Students will learn through repetition and modeling, self-assessment, reflection and supportive peer learning. This class meets each day for one period, and has a duration of one full school year.

Dance II (0707)

Gr. 10, 11, 12

Credits: 5

PREREQUISITE(S): Dance I

DESCRIPTION OF COURSE: This course is developed to give students deeper education into this art form. Dance II is for any student who has already taken Dance 1, and wishes to strengthen their dance training. Dance II will focus on more refined skills in all techniques; ballet, modern, contemporary, hip-hop and jazz. This class will explore the intricacies of each technique including but not limited to alignment, pathways of the body, dynamics and other performance elements.

Drama I (0705)

Gr. 09, 10, 11, 12

Credits: 5

PREREQUISITE(S): No

DESCRIPTION OF COURSE: This course is an introduction to theatre via creating, performing, responding and connecting to performing and public speaking. Students will have the opportunity to work and create performance art through improvisation, scripting, scene work and more. This course is for a student that has an interest in acting, performing, or public speaking on stage and little to no prior experience. Projects and class work will teach students about foundational skills and acting tools as well as introduce them to a variety of scripts and plays.

Drama II (0708)

Gr. 9, 10, 11, 12

Credits: 5

PREREQUISITE(S): Drama I

DESCRIPTION OF COURSE: This course will build on the skills taught in Drama 1/Acting 1 and is designed for students who desire to enhance their performance and theatrical skills and study material at a more advanced level. Students will explore a variety of performance techniques and stagecraft, including stage makeup and costume design. Students will build on foundational acting skills and develop technique in various acting methods through the study of theatre practitioners.

Musical Theatre I (0709)

Gr. 10, 11, 12

Credits: 5

PREREQUISITE(S): Drama I

DESCRIPTION OF COURSE: Students will work on acting through song and dance as they build the techniques and skills necessary to deliver authentic and compelling musical theatre performances. Students will learn about the history of musical theatre while participating in solo, duet and group performances from different eras in musical theatre history.

Musical Theatre II (07010)

Gr. 10, 11, 12

Credits: 5

PREREQUISITE(S): Drama I and Musical Theatre I

DESCRIPTION OF COURSE:

Students will work on acting through singing and dancing as they build the techniques and skills necessary to deliver authentic and compelling musical theatre performances. Students will learn about the history of musical theatre while participating in solo, duet and group performances from different eras in musical theatre history. All students will be required to sing and dance. Class will culminate in a full-length final performance.

Concert Choir (0764)

Gr. 09, 10, 11, 12

Credits: 5

PREREQUISITE(S): No

DESCRIPTION OF COURSE: A performance-based ensemble for any student who enjoys singing and publicly performing a variety of music including classical, spirituals, Broadway, and popular songs. Students will have various opportunities to perform both in school and throughout the State. No auditions are necessary, but students will need to sing for the director to ensure placement in the proper voice section. Concert Choir is held 5 days per week during the school day as scheduled; occasional rehearsals and performances outside of normal school hours are considered a part of this course.

Symphonic Band (0753)

Gr. 09, 10, 11, 12

Credits: 5

PREREQUISITE(S): Students must play an instrument Instruments included in this band class are as follows: Flute, Clarinet, Saxophone, Oboe, Bassoon, Trumpet, French Horn, Trombone, Baritone, Tuba and Percussion

DESCRIPTION OF COURSE: A performance-based ensemble designed to meet the interests and needs of students who have been playing instruments for several years or are interested in starting. Rehearse 5 days per week.. Occasional rehearsals and performances outside of normal school hours are considered a part of this course.

Symphonic Band Honors (0753H)

Gr. 11, 12

Credits: 5

PREREQUISITE(S): Symphonic Band. May be required to audition with the high school Band director.

DESCRIPTION OF COURSE: Designed to Challenge students with advanced performing ability. Occasional rehearsals and performances outside of normal school hours are considered a part of this course.

Orchestra (0754)

Gr. 09, 10, 11, 12

Credits: 5

PREREQUISITE(S): Students must play an instrument or have the desire to learn; lessons given on-site for most instruments; Instruments included are as follows: Violin, Viola, Cello, Bass, Harp or Bass.

DESCRIPTION OF COURSE: A performance-based ensemble designed for students who play an Orchestra instrument or would like to learn; Class meets 5 days per week. Occasional rehearsals and performances outside of normal school hours are part of this course.

Orchestra Honors (0754H)

Gr. 11, 12

Credits: 5

PREREQUISITE(S): Orchestra; May be required to audition with the high school orchestra/band director.

DESCRIPTION OF COURSE: This course is designed to challenge students with advanced performing abilities on string instruments. Occasional rehearsals and performances outside of normal school hours are part of this course.

Music in Film (0703)

Gr. 09, 10, 11, 12

Credits: 5

PREREQUISITE(S): No

DESCRIPTION OF COURSE: Music in Film studies allow the development of special interest in music performance, composition, production and musicology, while exploring art, entertainment, history, culture and commerce in cinema. Throughout the course, flexible pathways are developed, allowing the exploration of music that interests the individual. Insight into the relationship of music, film and television, to history and culture are infused into this unique curriculum.

Guitar 101 (0768)

Gr. 09, 10, 11, 12

Credits: 5

PREREQUISITE(S): No

DESCRIPTION OF COURSE:

Playing a musical instrument makes you smarter, it has been claimed. New research suggests that regularly playing an instrument changes the shape and power of the brain and may be used in therapy to improve cognitive skills. It can even increase IQ by seven points in both children and adults, according to researchers. - Richard Alleyne, Science Correspondent. The objective of this class is to teach students to (you guessed it) play the guitar. Learning an instrument is a practical skill that can be carried and used for a lifetime. In this class students will learn basic guitar principals included, but not limited to: reading tablature, chords, rhythmic and lead guitar playing, music theory and applying these skills to performing songs - both individually, collaboratively, and songwriting.

Guitar 102 (0769)

Gr. 09, 10, 11, 12

Credits: 5

PREREQUISITE(S): Successful completion of Guitar 101 and Teacher Recommendation.

DESCRIPTION OF COURSE:

The objective of this class is to build off principals learned in Guitar 101 and study different styles of guitar playing - such as jazz and classical, bass guitar, reading sheet music, advanced chords/scales, and music theory. The overall goal is to integrate these students into our other performance groups - band, orchestra, jazz band, marching band and any other opportunities that may come up collaborating with choral, dance or dramatic performances.

VOCATIONAL PROGRAMS
OCEAN COUNTY VOCATIONAL TECHNICAL SCHOOL
Brick
Jackson
Toms River
Waretown

APPLIED AND PERFORMING ARTS

Design and Visual Communications (Tech Prep)
Dual Enrollment - Ocean County College

2 years

900 hours Brick

The Design and Visual Communications Career Cluster emphasizes preparation for both employment and continuing education at a post high school institution, while offering Tech Prep agreements for possible college credit upon examination or portfolio review. Secondary students traditionally attend for a 2-1/2 hour session per day while the second part of their day they complete academic requirements at their sending high school. After high school, students have the option to attend full-time, two sessions per day, for an intensive completion of the program in a single year. Students select from three component career areas within this career cluster program. The Design and Visual Communications Career Cluster consists of eleven ten-week courses. These courses consist of both conventional and digital skill competencies to assure graduates are competitive in a wide variety of design and visual communication careers within this far-reaching industry.

The Multimedia Component covers the creation of digital art for print, video and electronic media. This component of the program includes courses in: Digital Art and Design, Animation and Multimedia, Web Design and Video Production.

The Photography Component covers the techniques of traditional and digital photography highlighting skills required in advertising, portraiture, multimedia and fine art. This component of the program includes courses in: Digital Photography, Multimedia Photography, Film and Darkroom Photography, and Studio Lighting.

The Digital Reproduction Component emphasizes the use of current technologies in both conventional printing and digital reproduction. This component of the program includes courses in: Design and Reproduction, Screen Printing, and Production Graphics.

Tech Prep agreements with the Ocean County College, Boston University Center for Digital Imaging Arts, Antonelli Institute and the Art Institute of Philadelphia have been established to provide students with opportunities to earn advanced college credits/placement upon successful completion of this program.

COMPUTERS/DESIGN

Computer Service Repair

1 year

450 hours Toms River

This program is a survey course designed to prepare students with a diversified computer and electronic background. The goal is to supply the necessary information needed to prepare students to make educational decisions in pursuing computer or other related technology careers. The student will learn the theory of operation, assembly, and troubleshooting of modern computers. The course targets entry level skills leading to a career in the computer service market. Recommended Skills: Strong math and science skills are recommended.

Computer Science (Tech Prep)
Dual Enrollment - Ocean County College

2 years

900 hours Toms River

This course provides students with opportunities for advanced studies in information technology. The program is open to students who plan on pursuing college degrees in preparation for careers as system engineers, computer programmers, information technology managers or other technology related specialties. Topics covered in the course include: introduction to information systems and computer applications, introduction to problem solving and program design, Internet organization and applications, object oriented design and programming using Visual BASIC, and Java, and web site design and development using HTML, JavaScript, and PHP. The course may include internships with area businesses. Multimedia applications, high speed Internet access, and state of the art equipment and technology are available to students.

A Tech Prep agreement with Ocean County College has been established to provide students with an opportunity to earn advanced college credit upon successful completion of this program. Recommended Skills: Familiarity with desktop computers, standard desktop applications like Word and Excel, and the Internet.

Pre-Engineering Technology

2 years

900 hours Jackson

This STEM based program of study will prepare individuals to apply engineering principles and technical skills to the identification and resolution of production problems in the digital fabrication process. The areas of study this program will encompass are: engineering analysis, systems analysis, automation, computer aided manufacturing (CAM), prototyping, instruction in machine operations, production, line operations, planning and design, quality control, and informational infrastructure.

This program emphasizes a diverse set of technical and academic skills, while incorporating valuable work-based learning experiences. Students will be exposed to current and relevant career pathways in related industry sectors such as industrial, mechanical, and electronic engineering, as well as furthering their education beyond the classroom.

Recommended Skills: Basic computer skills, strong math and language skills. Good Attendance. Basic drafting experience a plus.

CONSTRUCTION TRADES

Auto Precision Machine Technology (New Program)

2 years

900 hours Jackson

Precision Machine Technology (PMT) is an authentic makerspace equipped with machinery used in industry, designed to meet the current and emerging workforce needs in the advanced manufacturing industry. Students in the new shared-time PMT program will explore the production of metal and plastic products through manual and automated processes. Completers of this program will acquire a diverse and well-rounded set of academic and technical skills that will prepare them to enter the workforce and/or college. Students interested in pursuing a degree in engineering will have the opportunity to gain an understanding of the capabilities and limitations of production machinery. This knowledge is valuable to an aspiring engineer as they will possess a well-rounded understanding of the production process, allowing them to problem-solve and troubleshoot design challenges before they hit the production floor. Areas of study include: Computer Numerical Control (CNC) theory/operations, interpreting engineering drawings, quality control, production planning, digital readout skills, metal fabrication, GTAW (TIG) welding, GMAW (MIG) welding, precision measurement and analysis, manual machining operations, and workplace safety (OSHA-10). Recommended Skills: Basic computer skills, strong math and language skills. Good Attendance.

Building Construction Technology

2 years

900 hours Brick

This program teaches theory and application of techniques used in the building trades. The program will include the following: skills in framing, roofing, sheathing, siding, door and window installation, drywall installation, trim work and concrete block construction. Students who complete the program are qualified for employment or may become apprentices through Carpenter's Local 2018.

Custom Woodworking and Design

2 years

900 hours Jackson

Students learn the fundamentals of working with wood in our well-equipped shop, from planning a project to adding detailed finishing work. Students will use traditional woodworking equipment, hand tools, and the latest computer numerically controlled (CNC) machinery and software. Using prints, specifications, and shop drawings, student learn the setup and operation of woodworking machinery and equipment, laminating, sanding, veneering, machining, assembly, and finishing. The program is project-focused and emphasis is placed on selecting proper materials, manufacturing parts to specification, and finishing individually designed projects.

Electrical Trades/Integrated Cabling Technology

2 years

900 hours Jackson/Toms River

The scope of this course deals with residential and light commercial electrical wiring, as well as voice, data, and video cabling. The fundamental theory and application of circuits, test equipment, transformers, motors, and various types of control devices for power, lighting, and security are emphasized. Load calculations for residences and small commercial buildings will be taught. Code requirements and installation methods for various types of cables, conduits (both flexible and non-flexible), and service equipment will be addressed. Telecommunications skills and theory are included. An introduction to the National Electrical Code, as applied to residential and light commercial wiring is part of the program; therefore, strong math and language skills are recommended. The safe use of tools and industry work practices will be stressed. Cooperative Industrial Education opportunities and transition assistance into apprenticeship training and work placement are integral to this program. Upon successful completion of this two-year program, students will receive advance standing in the OCVTS Adult Education Division Apprenticeship Program.

Heating, Ventilation, Air Conditioning and Refrigeration (HVAC-R) (Tech Prep)

2 years

900 hours Brick

Year 1 - HVAC/Mechanical Services Technology - Mechanical Services Technology incorporates practical hands-on training and operating theory of today's hot water, heating and air conditioning, and plumbing systems. Students will learn the skills needed to service, repair and install systems in all of these areas. making them marketable and career ready in the mechanical trades industry. This course includes safety standards, blueprint reading, electrical schematic diagrams, building codes, electrical control wiring and troubleshooting, as well as piping installations and basic plumbing concepts.

Year 2 - HVAC/Refrigeration - Students will learn basic concepts necessary to install, repair, and maintain heating, air conditioning, and commercial refrigeration equipment. Basic theory and operation of mechanical components and electrical controls will also be covered. The Environmental Protection Agency Refrigerant Certification Exam is given upon completion of the program. A Tech Prep agreement with the University of Northwestern Ohio has been established to provide students with an opportunity to earn advanced college credit upon successful completion of this program. Upon successful completion of this two year program, students will receive advance standing in the OCVTS Adult Education Division Apprenticeship Program.

Heavy Equipment Operator (New Program)

2 years

900 hours Jackson

The Heavy Equipment Operator program is a pre-apprentice program designed to provide students with the knowledge, skills, and competencies to operate and maintain a diverse range of heavy construction equipment. Students will be engaged in industry relevant, hands-on instruction that is aligned with the National Center for Construction Education Research (NCCER) Heavy Equipment Operations curriculum. Skills will be further developed through the use of state of the art in-class simulators and authentic learning opportunities in which students will operate actual machinery. Throughout the program students will be provided the opportunity to learn in the field through job shadowing experiences and qualified candidates may continue on to participate in cooperative education experiences with local employers.

Welding

2 years

900 hours Toms River

The welding program provides students with hands-on instruction in a variety of welding and metal fabrication processes. Students learn techniques in shielded metal arc, gas metal arc, gas tungsten arc, and flux cored arc welding. Welding related cutting processes covered include: oxy-fuel gas and plasma arc cutting. Upon completion students are prepared for careers in construction, fabrication, and repair of industrial and transportation equipment including cars, ships, pleasure crafts, and aircraft. They are also qualified for employment in the area of structural welding including the fabrication of bridges, steel structures, pipelines, and boilers. Area industries provide students with work-based welding experience. Students are encouraged to become members of the American Welding Society (AWS) and successful graduates may receive AWS Certification.

HEALTH TECHNOLOGIES

Dental Assisting

2 years

900 hours Toms River

This program teaches four-handed dentistry and lab skills, prevention techniques, operative treatment, and specialty areas. A clinical experience in a dental office is a required part of the program. Students must provide transportation to the clinical site. The course provides preparation for students interested in dental careers such as dental hygienist, lab technician, x-ray technician, and dentist, as well as for those interested in immediate employment as a dental assistant. Additional certification allows students to become certified or registered assistants licensed to perform oral procedures under the supervision of a dentist. High school seniors are given priority for admissions to this course. Recommended skills: Word processing and strong communication skills are recommended.

Health and Fitness Technology (Tech Prep)

2 years

900 hours Toms River

This course introduces students to the fields of fitness, personal training, nutrition, and physical rehabilitative therapy through preparation as an entry level personal trainer, fitness technician or group fitness instructor. Course outline includes: basics in human anatomy, exercise physiology and kinesiology, as well as exercise program design and nutrition. Course outline includes: basics in human anatomy, exercise physiology and kinesiology, as well as exercise program design and nutrition. Wellness/fitness workers and physical therapy aides are skilled workers employed in fitness centers, corporate wellness programs, hospitals, sports medicine clinics and rehabilitation centers. A clinical experience is offered in the second year, where students may work in fitness, wellness and rehabilitative settings. A Tech Prep agreement with Ocean County College has been established to provide students with an opportunity to earn advanced college credit upon successful completion of this program .

Medical Assistant

2 years

900 hours Toms River

This program emphasizes physician assisting skills. It is divided into two years – an administrative year and a clinical year. A student may begin the program at the beginning of either year.

The curriculum covers medical terminology and abbreviations, medical law and ethics, insurance billing and coding, medical history taking, computerized scheduling, in-depth computerized software (Medisoft), infection control, vital signs, electrocardiograms, laboratory procedures including urinalysis, Strep tests, capillary sticks, and venipuncture techniques. Students will learn to assist the physician with special procedures and minor surgery. Proper communications skills and professionalism will be emphasized. Students may pursue their certification as a medical assistant or continue studies for radiology technician, licensed practical or registered nurse, health information technologist, billing and coding specialist and many other healthcare careers. A Tech Prep agreement with Ocean County College has been established to provide students with an opportunity to earn advanced college credit upon successful completion of this program. Recommended skills: Keyboarding skills are strongly recommended.

Medical Skills and Related Health Careers (Tech Prep)

2 years

900 hours Toms River

The first year provides an exploration of several health career options. The curriculum covers anatomy and physiology, medical terminology, and key concepts in health care such as professionalism and ethics. Basic patient care skills such as body mechanics, bed making, transferring patients, and personal care including feeding, bathing, and oral care, are covered. A clinical experience is provided at a long-term care facility. The second year is geared toward preparing the student to become a Certified Nurse Assistant. The curriculum and clinical experiences are mandated by the State Department of Health and Senior Services. Upon successful completion of the 90 hour program, the student may take the two-part state exam to earn their certification as a Nurse Aide and may qualify for a work-study program offered through OCVTS. The Certified Nurse Aide curriculum is a good foundation to help prepare students for a career path in Nursing. Other components of the class include: membership in HOSA (Health Occupations Students of America), a student organization emphasizing professionalism and leadership skills for students who are pursuing a health career. A Tech Prep agreement with the University of Medicine and Dentistry of New Jersey (UMDNJ) has been established to provide students with an opportunity to earn advanced college credit upon successful completion of this program. Recommended Skills: Strong math and science skills are recommended. Good attendance.

SERVICE OCCUPATIONS

Child Care Professions (Tech Prep)

2 years

900 hours Brick

This program provides training for teacher assistant positions in child care centers. Students gain experience supervising and guiding preschoolers, ages 3-5, in a developmentally appropriate nursery school setting within the classroom.

Students develop skills in: performing health, safety, and sanitation activities; assisting with planning and guiding curriculum experiences in art, creative movement, language arts, math, music, nutrition, pre-reading/pre-writing, and science; supervising daily routines, transitions and meals; creating instructional games and visual aids. In addition, Job Shadowing/Mentoring is offered in community child care centers. Students can earn instructional hours towards the Child Development Associate (CDA), a nationally recognized credential, equivalent to group teacher certification. Graduates may continue their education in the early childhood field through college courses leading to New Jersey teacher certification.

Cosmetology (Tech Prep)

2 years

1000 hours Brick/Jackson/Toms River

This Tech Prep program teaches skills and the knowledge necessary to pass the New Jersey State Board of Cosmetology licensing exam. The skills taught relate to the major areas of instruction including hair services, skin and nail services, business management, and barbering. In school, clinical experiences provide hands-on training. High school and adult applicants will be required to pass a written examination for admission. Good attendance is critical for completion of hourly requirements to sit for licensing exam. A Tech Prep agreement with Ocean County College has been established to provide students with a opportunity to earn advanced college credit upon successful completion of this program. Adults may attend cosmetology programs full-time from 2-7PM daily or in the evening from 4:30-9:30PM Monday, Tuesday and every other Friday. See full-time Adult Programs for description.

Culinary Arts (Tech Prep)

2 years

900 hours Brick

This Tech Prep program provides students with experience in the preparation, service, and management tasks involved in the food service industry. Areas of concentration include: safety, sanitation, food preparation, advanced food preparation, commercial baking, advanced baking, dining room service, and management. Students will also gain practical experience by operating a dining and banquet facility. Tech Prep agreements with the Academy of Culinary Arts at Atlantic Cape Community College, Johnson & Wales University, The Restaurant School at Walnut Hill College and Brookdale Community College have been established to provide students with an opportunity to earn advanced college credit upon successful completion of this program.

Fashion Design/ Merchandising (Tech Prep)

2 years

900 hours Brick

Students will develop skills in the fields of retail sales, and fashion design. Fashion terminology, trends, research, buying, advertising, textile science, and fashion illustration will be taught through hands-on experiences and job-shadowing activities. Second year students have the opportunity to participate in an on-the-job work study experience. A Tech Prep agreement with Brookdale Community College has been established to provide students with an opportunity to earn advanced college credit upon successful completion of this program. Recommended skills: Familiarity with desktop computers, standard desktop Excel, and PowerPoint. Mastery of basic math skills and sewing skills.

TRANSPORTATION TECHNOLOGIES

Automotive Technology (Tech Prep)

2 years

900 hours Brick/Jackson/Waretown

The student will be introduced to major concepts and theories of automotive maintenance, service and repairs on modern automobiles. This program is also evaluated by NATEF and certified by The National Institute for ASE. The following subjects are ASE approved: engine repair, engine performance, electrical/electronic systems, brakes, suspension, and steering. Upon completion students are prepared to take ASE certification tests. Tech Prep agreements with the Brookdale Community College, Mercer County College, Lincoln Technical Institute and the University of Northwestern Ohio have been established to provide students with an opportunity to earn advanced college credit upon successful completion of this program.

Collision Repair (Tech Prep)

2 years

900 hours Jackson

This NATEF/ASE certified program provides students with the skills and knowledge required by the Collision Repair Industry. Using the Inter-Industry Conference on Auto Collision Repair (I-CAR) curriculum, students learn body repair, refinishing, and M.I.G. welding techniques. Advanced students learn computerized estimating and frame and unibody alignment procedures using laser measuring technology. Students are provided with transition services to move into advanced education or apprenticeship programs upon graduation.

Diesel Engine Technology (Tech Prep)

2 years

900 hours Jackson

This Diesel Engine Technology program follows the curriculum guidelines set by ASE & National Automotive Technical Education Foundation (NATEF) for the Medium Heavy Truck certification. The program provides students with the technical knowledge and skills for employment in the diesel industry. Diesel Engine Technology involves diagnosing and repairing the mechanisms and systems found in today's diesel powered vehicles. Instruction includes a combination of classroom theory and practical experience. Areas of study include Diesel Engine Systems such as; lubrication and cooling, air induction and exhaust, and fuel systems. Also, brake systems; air & hydraulic, steering and suspension systems, electrical and electronic systems, and preventative maintenance inspection.

Upon successful completion, students are prepared for entry-level employment in the diesel field and will have acquired the knowledge necessary to take ASE Medium Heavy Truck certification tests. Tech Prep agreements with University of Northwestern Ohio, Lincoln Technical Institute, and Ohio Technical College allow students to take challenge tests which provide them with an opportunity to earn advanced college credit from these institutions.

Marine Service Technology

2 years

900 hours Toms River

This program utilizes modern engine technology and test equipment to help enhance skills in the theory, maintenance, and troubleshooting of outboard and inboard marine engines.

Students will develop a working knowledge of marine systems such as electrical, mechanical, cooling, fuel, boat design and construction, and trailer maintenance. Curriculum also includes safety, marina operations and employability skills, boating safety, handling, seamanship, and basic navigation. The program has access to waterfront facilities where students will operate and maintain vessels. Recommended Skills: Mastery of basic math skills, good communication skills, and attention to detail are strongly recommended.

VOCATIONAL CAREER ACADEMIES

Performing Arts Academy

Theater, Dance or Vocal

Full Time

Lakehurst

This full-time school is geared toward students who wish to excel in the Performing Arts. This specialized high school program was developed specifically for the young artist-in-training. The school offers intense studies in theater, dance, and voice.

Courses include concentration in technical theater, acting techniques, directing, ballet technique, modern technique, jazz technique, choreography, music theory, vocal health, song preparation, and arts history (music, dance, theater), along with all of the academic requirements for a high school diploma. The students will be encouraged to continue their education in the arts after graduation, but will also be given the tools and resources to audition for professional companies. Students interested in a competitive and challenging environment must complete the necessary application process, which includes an entrance exam and audition (applicants will be contacted with specific information regarding the exam and audition).

Students interested in this high school should contact their middle school guidance counselor for further application information, as well as attend an information session.

Audio Technology (Tech Prep)

Full Time

At the Performing Arts Academy, the full-time program provides challenging college prep academic curriculum, along with a major in audio production for incoming high school juniors. This program meets New Jersey high school graduation requirements and prepares students for admission to competitive colleges and universities. The curriculum is driven by New Jersey Core Content Standards. This program combines both art and science in a field that requires specialized technical knowledge. Students will be guided through the process of capturing sound (audio) and storing it in both the digital and analog mediums for reproduction. Student will learn recording technology through classroom instruction and application in these techniques using professional recording equipment at the school's multiple studio recording facility. The program will be taught by professionals from the recording industry through real sessions with artist from many musical genres including commercials and voice over production. Applicants will be required to pass a written exam for admission.

Marine Academy of Technology and Environmental Science (MATES)

Full Time

Manahawkin

MATES is a specialized high school developed around the marine and environmental science theme. MATES is geared toward students who wish to concentrate their studies in the areas of math and science. A rigorous academic course of study instructed at the honors level satisfies all of the state requirements necessary for high school graduation and beyond. Students that are eligible may also take college level courses. The opportunity for participation in externships in laboratories, field work, and industry will be made available to students during their junior and senior years. Upon graduation, MATES students will be prepared to apply to competitive college and university programs. Students interested in a competitive and challenging environment must complete the necessary application process, which includes an entrance exam (applicants will be contacted with specific information regarding the exam). Students interested in this high school should contact their middle school guidance counselor for further application information, as well as attend an information session.

Law and Public Safety (Tech Prep)

Full Time

900 hours Waretown

The Academy of Law & Public Safety program offers a unique and comprehensive foundation of skills for Ocean County students interested in pursuing a career in law and public safety and homeland security. This Tech Prep program explores the role of law and public safety and homeland security in the United States and career opportunities in various law enforcement agencies.

The functions and day-to-day activities of law and public safety professionals from local, county, state and federal agencies will be examined. Writing and language skills as they apply to analytical report writing and recording of evidence are stressed. Students interested in a competitive and challenging environment must complete the necessary application process, which includes an entrance exam (applicants will be contacted with specific information regarding the exam). Students interested in this high school should contact their middle school guidance counselor for further application information, as well as attend an information session.

Quick Reference Guide

Perkins, NCAA & AP

Perkins:

Accounting	Engineering Design & Development	Medical Interventions
Biomedical Innovation	Fashion Design I, II & III	Principles of Biomedical Science
Business Management	Foundations of Art	Principles of Engineering
Commercial Art & Design	Hospitality & Culinary I, II & III	Recording Arts I, II & III
Communications for Business Administration	Human Body Systems	Television Production I, II & III
Digital Photography & Photoshop	Introduction to Engineering Design	AP Biology
Drawing & Painting	JROTC I, II, III & IV	
Entrepreneurship	Marketing I, II & III	

NCAA Approved:

English I, II, III & IV	English I, II, III & IV Honors	Law, Justice & Literacy
AP Language and Composition	AP Literature & Composition	American History I, & I Honors
American History II, & II Honors	World History & World History Honors	AP US History
Sociology	American Government and Politics	Algebra I & II
Algebra II with Trigonometry Honors	Geometry & Geometry Honors	Pre Calculus H
Calculus H	AP Calculus	Biology & Biology Honors
Chemistry & Chemistry Honors	AP Physics I & C	Environmental
Human Body Systems	Medical Interventions	AP Biology
Principles of Biomedical Science	Biomedical Innovation	Introduction to Engineering Design
Principles of Engineering	Spanish I & II, III Honors and IV Honors	Spanish for Native Spanish Speakers/Heritage Language I, II, III
AP Spanish		

Advanced Placement Courses

AP Calculus	AP English IV Literature & Composition
AP Biology	AP Calculus BC
AP English III Language & Composition	AP Physics I & C
AP US History	AP Spanish Language
AP Studio Art	



Option ii

In accordance with the New Jersey Administrative Code (N.J.A.C. 6A:8-5.1), the Lakewood Public Schools acknowledge that “all students will not achieve the standards in the same way, at the same pace, or with the same level of success.” By engaging in alternative learning opportunities which meet or exceed standards, students can obtain credit and satisfy graduation requirements through multiple and diverse pathways, outside of the traditional classroom environment.

Option ii Pathways:

Credit Recovery-To make up a subject failed during regular school session

Demonstration of native language proficiency-To earn high school credits for world language, students may complete a state approved assessment and attain a score of novice-mid (for one year of WL credits) or novice-high (for two years of WL credits). ELLs may also use their native language to satisfy the requirement when entering the ninth grade or at subsequent grade levels as newly-arrived students from their native country. Students that have been speaking their native language since a very young age and throughout their prior educational experience will satisfy the world languages requirement.

Study of English - ELLs who take an additional English or English as a Second Language (ESL) class may use that second English class to fulfill the world languages requirement.

Further Study of the Native/Heritage Language - ELLs may continue to further develop and enhance heritage language speaking and literacy skills in an out-of-school program in a world language not taught in the public school district. Further related to this option is the passage of legislation in August 2001, that required the Department of Education to establish a World Languages Instruction Committee to develop a plan which would provide students in public schools the opportunity to receive instruction in and *graduation credit* for a world language *not taught* in the public school district (N.J.S.A.18A:35-4.18). The procedures developed by the World Languages Instruction Committee are very similar to those outlined in N.J.A.C. 6A:8-5.1(a)1ii, known as Option Two of the code regarding implementation of graduation requirements.

Physical Education - Assignment of 3.75 credits for participation in an Athletic program for a full season.

Option ii pathways are voluntary. Schools counselors will discuss pathway options with students who are eligible and determine whether or not an alternate pathway will be pursued.

CAREER ACADEMY PATHWAYS

Audio Engineering:

Students will develop the skills necessary to become an audio engineer by creating quality sound music productions they will use to apply the skills they have learned to enhance their expertise as audio engineers.

They will learn how to record, edit and mix using effects such as equalization, compression and other sound manipulation techniques. Students will expand their knowledge through a variety of real world projects using software applications such as Pro Logic and/or Pro Tools to produce compact disc of their projects.

Business Administration:

Students interested in pursuing a Business Degree in college will be given an introduction to the courses required for completion of the degree. Following the course requirements for an A. S. degree in Business Administration from Ocean County College, students will be introduced to Communications, Accounting, Entrepreneurship, and Business Law. The final course will be a dual-enrollment course with OCC which means you will receive high school credit and three credits from OCC upon successful completion.

Broadcast Journalism:

The Television Production Program is to assist the student in acquiring the knowledge and skills necessary to be a successful entry level worker in the career field of Television Productions, Communication and/ or continue their education in a related field.

Television Production is offered in three full-year courses. During the students' time they will progress from basic and to advance as each course acts as a stepping-stone and builds off of skills and knowledge previously learned. The goal of the program is to prepare the student for entry-level work.

Fashion Design and Merchandising:

The Fashion Design course is designed for students who are interested in learning how to create their own fashions. The student shall learn tailoring techniques, construction techniques, specialization in pattern alterations and finishing details. Students learn new and more complex design construction, and develop advanced techniques currently used in the fashion industry. Fashion Design III/Merchandising is an advanced course designed for the student who wants to continue their study in a post-secondary setting or enter an occupation in the clothing industry. Students will learn advanced techniques of construction, design and finishing techniques as they enhance their skill in the technical and creative aspects of apparel design.

Graphic Design:

Brilliant photographs, sports logos, cartoon animation, billboard advertisements, image manipulations, movie posters. What do all of these have in common? They can all be created using various forms and techniques within the visual art and design field.

Inspiration, of whatever sort, begins a concept. Talent and technical skills are needed to implement and present designs, but the practice of refining, revising and gradually improving solutions is the most valuable and necessary ability for a successful designer in any field.

Health Sciences:

Whether discovering new cancer treatments or teaching healthy lifestyle choices to their communities, today's health science professionals are tackling big challenges to make the world a better place. Health Science students are taking on these same real-world challenges – and they're doing it before they even graduate from high school. Working with the same tools used by professionals in hospitals and labs, students engage in compelling, hands-on activities and work together to find solutions to problems. Students take from the courses in-demand knowledge and skills they will use in high school and for the rest of their lives, on any career path they take.

Hospitality and Tourism:

This pathway provides experiences with the preparation, presentation and business aspects with quantity foods. Students will plan and develop menus based on trends, dietary restrictions, nutritional value and influences of cuisines and culinary techniques from around the world. Purchasing, receiving and accounting of foods, dry goods, chemicals, supply management, inventory, financial transactions and management skills will prepare students for training assistants, management and supervising opportunities.

JROTC:

The principal goal of JROTC is "CIVIC VALUES, ETHICS & DISCIPLINARY STANDARDS." The purpose of this is rapidly growing, viable, dynamic and exciting elective Program of Instruction is to provide participating students with a developmental opportunity for a challenging and rewarding experience in a structured military environment which will be a value to the cadet, family, school, community and America. The curriculum complements all other courses of studies, activities and events.

Marketing:

Students in all Marketing courses will have the opportunity to gain valuable workplace experience in the school store where they apply marketing principles and effective management practices. The Lakewood HS DECA (Distributive Education Clubs of America) also enhances preparation for college & careers by providing a co-curricular program that integrates classroom instruction, applying learning in the context of business, connecting to business and the community and promoting competition. DECA also offers the marketing student the opportunity to compete at the local, state, and international level.

Pre-Engineering:

Students experience the interaction of science, technology, engineering, mathematics and literacy through a project-based learning environment. Students solve real-world problems and develop an understanding of the relationship between the physical, biological and social world.