NORTH SHORE
HEBREW ACADEMY
ישיבת חוף הצפון

# TENTH GRADE

## ACADEMIC PROGRAM COURSE GUIDE

## 2026-2027

NORTH SHORE
HEBREW ACADEMY
ישיבת חוף הצפון

# TENTH GRADE

## ACADEMIC PROGRAM

## COURSE GUIDE

## 2026-2027

NORTH SHORE HEBREW ACADEMY
ישיבת חוף הצפון

# CORE AND ELECTIVES
# 10 TH GRADE

## Judaic Studies

### Judaic Studies Core

Talmud

Tanach

Halacha / Machshava

### Hebrew

Hebrew Language

## General Studies Core

English

History

Mathematics

Science

Health Education

Physical Education

## Electives

Computer Science

World Languages

Engineering

Art

# ALL COURSES

**ALL SOPHOMORES ARE REQUIRED TO TAKE :**

**4 Judaic Studies classes**
1 Talmud
1 Tanach
1 Halacha- Machshava or Beit Midrash
1 Hebrew Language

**5 General Studies Core classes**
1 World Jewish History class
1 European History class
1 Mathematics class
1 English class
1 Science class

**1 Health Education class**

**1 Physical Education class**

**1 Elective  class**

NSHA

# JUDAIC STUDIES REQUIREMENTS

All Students are required to take **4 Judaic Studies classes**

Students who choose *Beit Midrash* Program:
take two daily periods dedicated to Talmud instead of one.
This program replaces the Halacha/Machshava requirement.

Students who choose Beit Midrash take
Double Talmud ( 2 periods a day)
1 Tanach
1 Hebrew Language

Students who do not choose Beit Midrash take:
1 Talmud
1 Tanach
1 Halacha / Machshava
1 Hebrew Language

# JUDAIC STUDIES

- TALMUD
- TANACH
- HALACHA / MACHSHAVA
- HEBREW LANGUAGE

# TALMUD

***Enrollment requires administrative and departmental approval.***

## MASHECHET SUKKAH: DOUBLE TALMUD / BEIT MIDRASH

In this course, you will learn sugyot from the second and third chapters of Masechet Sukkah in depth and with real focus (iyun). You will explore the mitzvah of sukkah, its laws, underlying principles, and the larger ideas it raises about the role of Hashem in your life. Along the way, you will also think more broadly about mitzvot and how they shape and deepen your relationship with Hashem. At the same time, you will learn additional parts of the masechet at a faster pace (bekiyut), giving you exposure to a wide range of topics and helping you build fluency and confidence across many dapim. With the added time of the Beit Midrash program, you will be part of a learning environment that is serious and challenging, while also being relaxed and enjoyable. The goal is for you to grow as a learner, deepen your connection to Torah, and be part of a group that builds real friendships along the way.

## MASHECHET SUKKAH (SINGLE PERIOD)

In this course, you will study topics from the second and third chapters of Masechet Sukkah in depth. You will explore the mitzvah of sukkah, its laws, underlying principles, and the larger questions it raises about the role of Hashem in your life. You will also consider the broader role of mitzvot and the ways they shape and deepen your relationship with Hashem. Through careful analysis of the ideas and principles behind these mitzvot, you will experience the depth of Torah learning and develop a stronger appreciation for the richness and seriousness of halachic thought.


# TANACH

**SEFER DEVARIM / YIRMIYAHU**
***TBD***

## SEFER DEVARIM (FALL)

Sefer Devarim (literally "words" or "speeches") presents the speeches of Moshe in the fortieth year in the desert, as the nation stands on the threshold of entering the land of Israel. In this sefer, you will encounter a historical speech retelling the exodus and the wanderings in the desert, as well as a lengthy speech of mitzvot.

Although much of the sefer is a historical and legal recap—which gave it the name "Mishne Torah," a retelling of the Torah—it is not a simple recap. You will see that the sefer contains many of the most important principles of Judaism, such as free will, teshuva, and redemption. The great national institutions are established, including the Judiciary and the Kingship. Laws of war and peace are presented, and a blueprint for a sovereign nation in the land of Israel is laid out. The sefer sets forth a positive charge to move forward into the land of Israel with a framework for national identity. It facilitates the transition from being "led" to becoming "leaders" of your own national destiny.

As you stand on your own "threshold" of independence, Sefer Devarim challenges you to consider what it means to move from being a passive recipient of guidance to an active architect of your own life. The sefer has the power to shape your thinking around themes of communal and national service and responsibility. Ultimately, Devarim invites you to find your own voice within our shared history, empowering you to step into the future with both a clear memory of your roots and a courageous blueprint for your own contribution to the Jewish story.

## SEFER YIRMIYAHU (SPRING)

Sefer Yirmiyahu captures the turbulent period surrounding the destruction of the First Beit HaMikdash, serving as a chronicle of a nation in spiritual and political decline. Spanning over forty years of prophecy, athe sefer follows Yirmiyahu as he delivers difficult truths to a people and leadership resistant to change.

As you learn this sefer, you will encounter not only words of rebuke, but also a vital thread of hope and nechama woven throughout. Yirmiyahu guides you through the experience of a faith that endures even in the face of destruction. The sefer provides a blueprint for Jewish survival in the Diaspora and holds out the promise of eventual return.

# HALACHA/ MACHSHAVA


**HILCHOT KASHRUT**

In this course, you will explore Hilchot Kashrut in a way that is both meaningful and practical. You will develop a clear and integrated understanding of how halacha works through one of the most lived areas of Jewish life. You will not only learn the laws, but also begin to understand the deeper values behind them, why Kashrut matters and how it helps shape a thoughtful and intentional Jewish life. The class is designed to be engaging, open, and focused. You will be encouraged to ask questions, share ideas, and think critically, while growing both intellectually and spiritually. You will study topics such as the purpose of Kashrut, how halacha functions, kosher and non kosher animals, the relationship between meat, dairy, and fish, core principles like taste transfer and mixtures, practical applications in the kosher kitchen, and select contemporary issues.

# HEBREW LANGUAGE AND LITERATURE

# עברית וספרות

***Four years of Hebrew language and literature is a requirement. Students in the ninth grade are initially placed by ability level measured by personal interviews and formal placement tests. Once placed, students may advance according to the following standard sequence:***

- ***Preparatory Level*** **- מכינה**
- ***Grade Level***
- ***Intermediate Level***
- ***Advanced Level*** **- בחינה**

A student may begin his or her Hebrew Language study in the beginner's level and proceed to the intermediate level during the course of the ninth grade. In every grade there are class sections to accommodate the varying needs of each student. Students are placed in homogeneous classes with their peers at the precise level that will ensure they will be challenged to improve their language skills.

# GENERAL STUDIES

- ENGLISH
- HISTORY
- MATHEMATHICS
- SCIENCE
- HEALTH EDUCATION
- PHYSICAL EDUCATION

# ENGLISH

***All students are required to take four years of English. Placements are determined by the department.***

## LANGUAGE, LITERATURE AND WRITING II

This second-year foundation course focuses on the study of novel, drama, memoir, poetry and short story. The thematic lens is Global Voices. Students write for self-expression as well for developing skill in expository writing. Grammar and vocabulary study are integrated into the curriculum as weekly features of instruction. Based on teacher and administrative input, students may be placed in sections that are specialized in order to address their needs for enrichment or remediation.

# HISTORY

***All Sophomores take World Jewish History as their History requirement.***

## WORLD JEWISH HISTORY

This course examines World and Jewish History in tandem, from the fall of the Second Temple in 70 CE through the 2005 Hitnatkut. Students explore major developments including Jewish life in the Middle Ages, the Enlightenment, Jewish Emancipation, modern antisemitism, and the Holocaust, alongside the rise of nationalism, global conflicts, and the development of the State of Israel. Students also trace thematic issues, like Jewish independence, social interaction with non-Jews, and cultural exchanges. We will study the various patterns of Jewish migration between the Middle East, Europe, and the Americas, with a particular focus on the recent Persian- and Bukharian-Jewish diasporas. Emphasizing the dynamic relationship between Jewish and world history, the course highlights how each shapes and responds to the other across time. Through the analysis of historical documents, students will bring history to life while developing core historical thinking skills.

# HISTORY

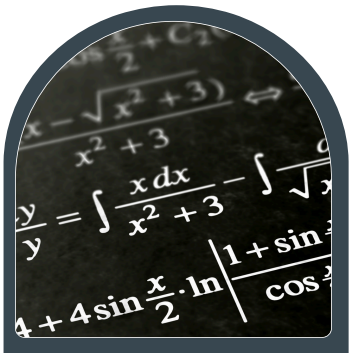
***Students will be placed in ONE of the following two courses (3 times / wk). Enrollment in AP European History requires administrative approval.***

## ADVANCED PLACEMENT: EUROPEAN HISTORY

This college-level course provides students with a comprehensive understanding of European history, beginning with the Renaissance and continuing to the present day. Students will explore how Enlightenment ideas shaped the development of modern democratic states, influenced revolutions and sparked nationalist and liberal movements across the continent. Students will examine key developments including the Scientific and Industrial Revolutions, the rise of imperialism, and the major conflicts of the twentieth century: World War I, World War II, and the Cold War. Emphasis is placed on the impact of these events on various populations and the shifting conceptions of rights, sovereignty, and citizenship. The course highlights the analysis of primary and secondary sources, the development of historical arguments, and comparative analysis. Upon completion of this course, students will have developed college-level research, analytical, and writing skills. Teacher recommendation is required for enrollment.

## ANALYZING HISTORY

This course is designed to develop each student's research and historiographic skills in the area of European History. We will incorporate a wide range of experiential activities to involve students in capturing the true Zeitgeist of each era, while working to improve their ability to analyze,interpret, and evaluate primary and secondary sources. Students will interact with each other, role playing, debating, and taking part in simulations. They will also be immersed in an extensive writing program to perfect their skills in building thematic and document-based outlines and essays. A major goal of this program is to promote self-sufficiency; students will learn to solve their own dilemmas during the skill enhancement process.



# MATHEMATICS

***All sophomores are required to take Mathematics.***
***Placements will be determined by the department.***

## ADVANCED ALGEBRA WITH TRIGONOMETRY 10: ACCELERATED

Students enhance their algebraic skills and develop an understanding and mastery of trigonometric concepts. Students extend their study of real numbers, equations and inequalities, functions, systems of equations, polynomials, rational expressions, complex numbers, quadratic equations, transformations, second degree equations, polynomial functions, exponential and logarithmic functions, an in depth study of trigonometric functions, graphs, identities, and equations, probability, and statistics.

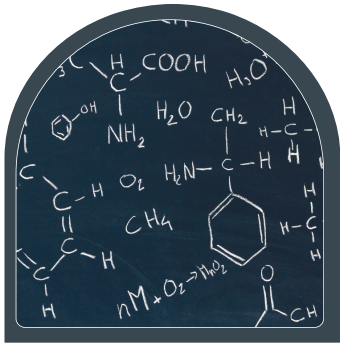
## ALGEBRA 10

This foundation course is for students in the tenth grade. The course aims to provide students with the fundamental algebraic skills necessary for working with variable expressions, equations, and verbal problems. Students learn about integers, rational numbers, equations and inequalities, exponents and polynomials, graphs and systems of equations, rational and radical expressions, relations and functions, and are introduced to probability and statistics. Students are encouraged to develop mathematical skills and work habits that will last throughout their academic careers.

## ALGEBRA 10: FOUNDATIONS

This foundation course is for students in the 10th grade who have had little or no experience with Algebra. The course aims to provide students with the fundamental algebraic skills necessary for working with variable expressions, equations, and verbal problems. Students learn about integers, rational numbers, equations and inequalities, exponents and polynomials, graphs and systems of equations, rational and radical expressions, relations and functions, and are introduced to probability and statistics. Students are encouraged to develop mathematical skills and work habits that will last throughout their academic careers. The goal for the Foundations students in the 10th grade is to gain knowledge and skills in order to progress to the grade level course.

# SCIENCE



***All sophomores are required to take Chemistry.***
***Placements are determined by the department.***

## CHEMISTRY

The chemistry course presents a modern view of chemistry with major emphasis on physical concepts and understanding interactions of matter. The objectives of the chemistry course are to introduce tenth grade science students to the following topics: phase change and gas laws, thermodynamics, atomic structure, periodic properties, bonding and chemical reactions, chemical kinetics and equilibria, periodic properties, stoichiometry, acid-base interaction, redox electrochemistry, organic chemistry, and nuclear chemistry. The course is taught at a descriptive conceptual level using demonstration to convey concepts wherever possible. A sequence of formal laboratory activities reinforces each topic and chemistry students are expected to become proficient in safely executing a lab protocol and eventually designing one of their own to test a given hypothesis. Sections will be differentiated to enable students to achieve the curricular goals of the course.

# HEALTH EDUCATION

***All sophomores are required to take health education.***

Health Education encourages the student to examine, develop, maintain, and promote a healthy lifestyle. Healthy lifestyle choices with regards: to nutrition and physical activity; behavioral health; psychoactive drug use; and human life cycle/relational health will be explored and discussed. The curriculum areas of Health Education concentrate on all aspects of health: the mental, physical, social, emotional, and spiritual well-being of the individual.

Each student will examine individual values, self-esteem, and goals for the future. Students will have the opportunity to experientially develop their social and emotional skills, while creating a knowledge base of health vs disease, and the effects that genetics; environment; access to health care and choice of health behaviors, have on their overall well-being and longevity. Students are evaluated through tests, projects, and class participation.

# PHYSICAL EDUCATION

***All sophomores are required to take physical education.***

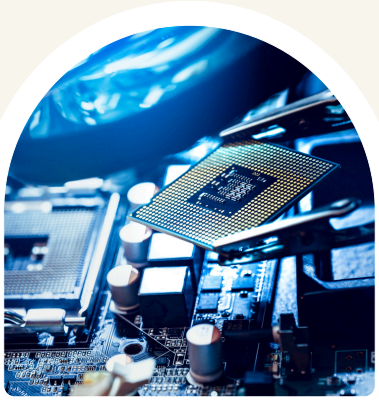
***Mr. Malis / Ms. Arjang***

Students are encouraged to meet their physical, emotional, and competitive needs through games, teams, and sports. Instruction will include units covering physical fitness, health, nutrition, flag football, volleyball, basketball, soccer, softball, and team handball.

# ELECTIVES

- COMPUTER SCIENCE
- WORLD LANGUAGES
- ENGINEERING
- ART

# COMPUTER SCIENCE



***All courses in the computer science department are electives. Teacher recommendation and administrative approval are required.***

## AP COMPUTER SCIENCE PRINCIPLES

This course is equivalent to a semester-long, college-level course in computer science. The course continues to teach students about computer science focused around seven big ideas: creativity, abstraction, data & information, algorithms, programming, the Internet and global impact. The course will use MIT App Inventor and the Blockly programming language to teach students about programming concepts in the context of mobile application development. The AP Computer Science Principles course includes a performance based task where students creatively design their own unique programming app. Collaboration will also be a key component in the class.

## COLLEGE PYTHON PROGRAMMING

College Python Programming is equivalent to a first-semester, college-level course in programming. The course introduces students to coding essentials including problem solving and program design, algorithms (sequence, selection/decisions, iteration/loops), data collection (lists, sets, dictionaries and scalar values), abstractions (procedures, functions), graphical user interfaces and user experience design. This is a project-based learning course where Python applications will be created and explored within a backdrop of traditional problems and more current computer science fields such as data visualization, machine learning, web scraping and integration with engineering projects. Collaboration will also be a key component in the class. Students may opt to earn college credit through LIU upon successful completion of this course. No experience required.

# WORLD LANGUAGES


***Students are encouraged to pursue their study of foreign language if they have completed advanced levels in previous years. Teacher recommendation and administrative approval are required.***

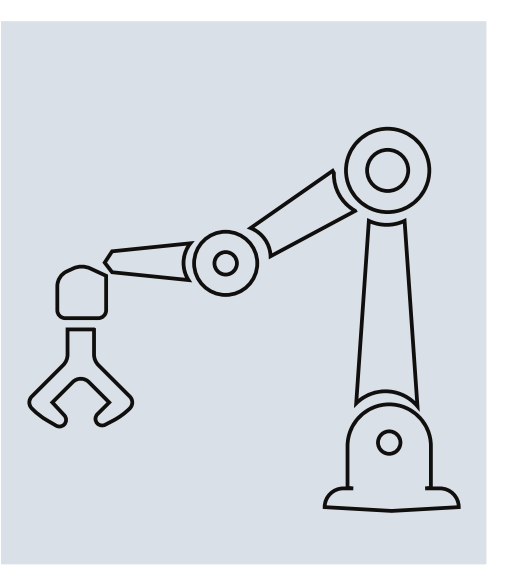
**SPANISH II**

All students who have successfully completed Spanish I are eligible to take this course which is designed to reflect the main thrust of foreign language instruction: communication. This is effectuated by the continued concentration on the four areas of Spanish language mastery: reading, writing, speaking and listening. The teaching of Spanish II is thematic: vocabulary is introduced in manageable amounts and in meaningful contexts. In addition, one of the foremost goals of students enrolled in this course is to be able to function effectively with the spoken language and to hone their listening comprehension skills. The students further develop their knowledge of the culture and civilization of the Spanish-speaking world.

**FRENCH II**

The students continue to develop the four basic language proficiencies in a communicative setting. Emphasis continues to be on the acquisition of an extensive active vocabulary that will enable them to communicate in a wide variety of real-life situations. French language skills are enhanced by written application and reading and writing abilities are polished. Maximum communicative practice is afforded the student with additional concentration on listening skills. French newspapers, short stories and films are presented to stimulate discussion and reading comprehension.

# ENGINEERING



***All courses in the engineering department are electives. Teacher recommendation and administrative approval are required.***

## ENGINEERING DESIGN AND 3D MODELING

This course is an introduction to engineering design principles. Students will learn how to utilize Autodesk Fusion 360, a professional 3D design software used by engineers in the industry. Students will create a portfolio of models that showcase major mechanical and geometric relationships that are key design considerations. Design topics include: An introduction to the technical design process and key terminology, Geometric Constraints, Mechanical Advantage, Ergonomics, Power Transmission and Gear Ratios, Prototyping, Stress Concentration, Aerodynamics, and 3D Printer Operation. Students will learn how to convert their models to printable designs to be prototyped on the 3D Printer. The course will culminate in a project that showcases some of the design principles learned throughout the course. This course is a prerequisite for the 11th Grade Mechanical Engineering Course.

# Art

***All courses in the Art Department are electives. Teacher recommendation and administrative approval are required.***

## STUDIO ART I

***Ms. Folk***

This is the basic art course in which students will acquire knowledge that is intended to lead to a mastery of skills related to the Elements of Art and the Principles of Design. In this course students will maintain an active sketchbook and journal and learn how to use a variety of media and illustrative materials. They will gain a historical knowledge of art by studying facets of art history and exploring artistic reference. Current trends and inspiration of the art world will be included in their studies. Museum and Gallery trips are planned.

# Fashion

**FASHION I**

***Ms. Dammacco***

The purpose of this course is to introduce students to the world of fashion design. They will acquire knowledge and skills related to the principles of fashion illustration and design by utilizing a range of media and a variety of techniques to create versatility in their work. Students will learn the proportions of the fashion (croquis) figure. They will learn through the elements and principles of design as they pertain to fashion, design terminology for apparel and recognition of design styles are also included as components of the course. Students will be required to demonstrate creative use of inspiration and design experimentation through various projects and a design journal and will be assessed on their knowledge of terminology, styles and applicability of the elements and principles. Museum and fashion show trips are planned.

# Architecture

## ARCHITECTURE I

***Ms. Dammacco***

This is a course in which basic fundamentals of architecture are examined and perfected. While design will be the main emphasis for this level and the student should have a good background in basic mathematics. Students will learn about the design process and explore the architectural concepts of space, form, function, and technology. Students will learn how to create mechanical and freehand drawings, draw in 1, 2 and 3pt perspective, interpret and create floor plans, create orthographic and isometric drawings, understand drawing to scale and read blueprints, construct scale models, consult with groups on various approaches to design problems, address environmental concerns and conservation efforts, learn to render architectural styles, explore the history of architecture, reference the internet for architectural sources and create computer renderings using CAD. Trips to or visits by working architects are anticipated.

NORTH SHORE
HEBREW ACADEMY
ישיבת חוף הצפון