GREENWOOD INTERNATIONAL SCHOOL

HIGH SCHOOL COURSE SELECTION ORIENTATION

May 2019
• Course Title: Algebra 1

• Grade level: Grades 9 or 10

• Duration: (2 semesters)

• Periods taught per 10-day cycle: 10 periods
Brief overview of the course

- **Algebra I concepts such as:**

  1- linear relationships, their graphs and functions;
  2- Systems of linear equations and linear inequalities;
  3- powers and exponents;
  4- quadratic equations;
  5- polynomials and factoring.

  6- Problem solving skills are emphasized throughout the course.
  7- Functions.
  8- Students will also learn to use technology to aid them in problem solving.
Course outcomes

- **Seeing Structure in Expressions**
  - Interpret the structure of expressions
  - Write expressions in equivalent forms to solve problems

- **Arithmetic with Polynomials and Rational Expressions**
  - Perform arithmetic operations on polynomials
  - Understand the relationship between zeros and factors of polynomials
  - Use polynomial identities to solve problems
  - Rewrite rational expressions

- **Creating Equations**
  - Create equations that describe numbers or relationships

- **Reasoning with Equations and Inequalities**
  - Understand solving equations as a process of reasoning and explain the reasoning
  - Solve equations and inequalities in one variable
  - Solve systems of equations
  - Represent and solve equations and inequalities graphically
Mathematical Practices

1. Make sense of problems and persevere in solving them.
2. Reason abstractly and quantitatively.
3. Construct viable arguments and critique the reasoning of others.
4. Model with mathematics.
5. Use appropriate tools strategically.
6. Attend to precision.
7. Look for and make use of structure.
8. Look for and express regularity in repeated reasoning.
Geometry

- Course Title: Geometry
- Grade level: Grades 9 or 10
- Duration: (2 semesters)
- Periods taught per 10-day cycle: 10 periods
Brief overview of the course

- **Geometry concepts such as:**
  
  The first semester includes
  1. Reasoning and writing proofs.
  2. Transformations.
  3. Congruency of triangles.
  4. Similarity of triangles.
  5. Triangle trigonometry.

  The second semester covers:
  1. Polygons.
  2. Circles.
  3. Areas and volumes of solids.
  5. Problem solving skills are emphasized throughout the course.
Course outcomes

Congruence
- Experiment with transformations in the plane
- Understand congruence in terms of rigid motions
- Prove geometric theorems
- Make geometric constructions

Similarity, Right Triangles, and Trigonometry
- Understand similarity in terms of similarity transformations
- Prove theorems involving similarity
- Define trigonometric ratios and solve problems involving right triangles
- Apply trigonometry to general triangles

Circles
- Understand and apply theorems about circles
- Find arc lengths and areas of sectors of circles

Expressing Geometric Properties with Equations
- Translate between the geometric description and the equation for a conic section
- Use coordinates to prove simple geometric theorems algebraically

Geometric Measurement and Dimension
- Explain volume formulas and use them to solve problems
- Visualize relationships between two dimensional and three-dimensional objects

Modeling with Geometry
- Apply geometric concepts in modeling situations
Mathematical Practices

1. Make sense of problems and persevere in solving them.
2. Reason abstractly and quantitatively.
3. Construct viable arguments and critique the reasoning of others.
4. Model with mathematics.
5. Use appropriate tools strategically.
6. Attend to precision.
7. Look for and make use of structure.
8. Look for and express regularity in repeated reasoning.
Integrated sciences I

- Course Title: Introduction to physical science
- Grade level: 9
- Duration: 2 semesters
- Periods taught per 10-day cycle: 10 periods
It is an integrated course introducing students to general basic concepts in Physics, Biology, & Earth sciences. Under physics, students will have the opportunity to learn about measuring units, significant figures, motion in one dimension (velocity, acceleration and falling object) , Newton’s laws, & forces. Moreover, it extends even further to the study of life where they have an encounter with biochemical reactions, cell theory , cell organelles, energy in the ecosystems, and relations among organisms. Finally, it ends with concepts in earth science about the universe and our planet earth.
It will include the life and the Death of the Stars, the Milky Way and other Galaxies, the Origin of the Universe, the history of Earth, Earth's Interior and Plate Tectonics, Earthquakes and Volcanoes (Thermal Convection), Minerals and Rocks, and Weathering vs. Erosion.
Want to Know How and Why? Learn Physics

Physics is crucial to understanding the world around us, the world inside us, and the world beyond us. It is the most basic and fundamental science. Physics challenges our imaginations with concepts like relativity and string theory, and it leads to great discoveries, like computers and lasers, that lead to technologies which change our lives—from healing joints, to curing cancer, to developing sustainable energy solutions.

Physics brings a broad perspective to any problem. Because they learn how to consider any problem they are not bound by context. This inventive thinking makes physicists desirable in any field. A bachelor’s degree in physics is a great foundation for careers in:

- Journalism
- Law
- Finance
- Medicine
- Engineering
- Computer Science
- Astronomy
- Biology
Chemistry is everywhere in the world around you! It's in the food you eat, clothes you wear, water you drink, medicines, air, cleaners... you name it. Chemistry sometimes is called the "central science" because it connects other sciences to each others, such as biology, physics, geology and environmental science.

Chemistry opens up career options. There are many careers in chemistry, but even if you're looking for a job in another field, the analytical skills you gained in chemistry are helpful. Chemistry applies to the food industry, retail sales, transportation, art, homemaking... really any type of work you can name.
Integrated Sciences II

- Course Title: Introduction to physical science
- Grade level: 10
- Duration: 2 semesters
- Periods taught per 10-day cycle: 10 periods
Course overview

- It is an integrated course which completes the basic concepts in Physics & Earth sciences introduced in grade 9; however, it introduces them to basic concepts in Chemistry. Under physics, students will have the opportunity to learn more about electricity, magnetism, sound, & light. In chemistry, they will be introduced to the periodic law, the periodic table, electron configuration, periodic properties, atomic structure, chemical bonds, chemical reactions, & acids and bases. Finally, it ends with completing concepts in earth science about energy resources, earth’s water, the atmosphere, human activities and impacts, & sustainability.
Course Title: Cell & Microbiology

Grade level: 10

Duration: 2 semesters

Periods taught per 10-day cycle: 10 periods
This course covers principles of microbiology with emphasis on microorganisms and human disease.

Topics include an overview of microbiology and aspects of medical microbiology, identification and control of pathogens, disease transmission, host resistance.

This course also covers basic cell biology. Emphasis is on biological chemistry, cell structure and function, cellular metabolism, genetics, and other related topics and immunity.
Course outcomes

- **HS-LS2-1** Use mathematical and/or computational representations to support explanations of factors that affect carrying capacity of ecosystems at different scales.

- **HS-LS2-2** Use mathematical representations to support and revise explanations based on evidence about factors affecting biodiversity and populations in ecosystems of different scales.

- **HS-LS2-6** Evaluate the claims, evidence, and reasoning that the complex interactions in ecosystems maintain relatively consistent numbers and types of organisms in stable conditions, but changing conditions may result in a new ecosystem

- **HS-LS2-8** Evaluate the evidence for the role of group behavior on individual and species’ chances to survive and reproduce.

- **HS-LS4-6** Create or revise a simulation to test a solution to mitigate adverse impacts of human activity on biodiversity.
Course outcomes

- HS-LS1-5 Use a model to illustrate how photosynthesis transforms light energy into stored chemical energy.

- HS-LS1-7 Use a model to illustrate that cellular respiration is a chemical process whereby the bonds of food molecules and oxygen molecules are broken and the bonds in new compounds are formed resulting in a net transfer of energy.

- HS-LS2-3 Construct and revise an explanation based on evidence for the cycling of matter and flow of energy in aerobic and anaerobic conditions.

- HS-LS1-2 Develop and use a model to illustrate the hierarchical organization of interacting systems that provide specific functions within multicellular organisms.

- HS-ETS1-2 Design a solution to a complex real-world problem by breaking it down into smaller, more manageable problems that can be solved through engineering.
In nature, microorganisms contribute to biogeochemical cycling, as well as turnover of material in soil and aquatic habitats.

Other applications of microorganisms include industries like mining, pharmaceuticals, food and beverages, and genetics.

Microorganisms are important model organisms for studying principles of genetics and biochemistry.
Many professions require you to learn some microbiology. These professions include but are not limited to:

- Nursing
- Medicine
- Clinical laboratory work
- Pharmaceuticals
- Brewing and winemaking
- Environmental engineering
Creative Writing

- Course Title: Creative Writing
- Grade level: 9 & 10
- Duration: 1 semester
- Periods taught per 10-day cycle: 10 periods

Greenwood International School  May 2019
This creative writing course offers you a quick and effective way to improve your creative writing skills. You'll study short and entertaining lessons that can help you write better stories, bring up your English grades or get ahead in a creative writing class.

Creative writing courses would introduce students to a wide variety of literary genres and creative writing techniques. During these creative writing classes, each student reads his or her works-in-progress to the class for helpful suggestions. Course topics include:

- Literary theory
- Screenwriting
- Poetry writing
- Non-fiction writing
- Fiction writing
- Playwriting
Course outcomes

- Students will write with clarity and purpose, maintaining a journal throughout the semester with a structure that works best with their own writing habits.
- Students will write with clarity and purpose, producing narrative that includes use of imagery, characterization, and elements of plot development.
- Students will write with clarity and purpose, producing poetry that includes use of imagery, poetic form, and poetic devices.
- Students will produce a portfolio of original writings and present portions to the class audience.
- Students will access and use information from a variety of resources for different purposes, submitting multiple pieces of original writing for potential publication to appropriate markets.
- Students will write with clarity and purpose, producing complete short stories that include use of imagery, characterization, and appropriate plot development.
- Students will access and use information from a variety of reputable, published resources, for the purpose of submitting multiple pieces of original writing for potential publication to appropriate markets.
At the end of the semester the students would be equipped with the knowledge and understanding of the choices they can make once they join university. You’ll come to recognize the power of the written word how it can change the way writers and readers live their lives. This writing course is designed to help you discover and put into practice your own strategies for living a more creative life. More practically (or more academically), you’ll learn basic strategies for gathering ideas for, writing, critically reading, and revising prose (primarily fiction) and poetry (which may be fictional or non-fictional).
International Relations

- Course Title: International Relations
- Grade level: Grades 9 & 10
- Duration: 1 semester
- Periods taught per 10-day cycle: 10 periods
International Relations describes relations between states, organizations and individuals at the global level.

**International Relations concepts such as:**

1. Subfields, vocabulary and theories of international relations;
2. Approaches to the study of conflict and cooperation in world affairs;
3. Applications to war, trade policy, the environment, and world poverty;
4. International Law in the context of how international rules define and govern the relations between states;
5. Ethical debates through class discussion and writing assignments about global issues;
6. Making presentations using different multimedia about international relations;
7. Being social scientists and conducting public opinion surveys about different global issues and writing policy memorandums;
Course outcomes

- **Critical Thinking**
  - Use analytical intellectual tools to examine global issues
  - Critically analyze the complex interrelationships that exist among nations

- **Content knowledge**
  - Describe and discuss the history, culture, society, geography, and political economy of a major world region.
  - Describe, explain and apply basic knowledge of the role and effects of different international actors in the global system

- **Communication**
  - Employ methods of interdisciplinary social science research to evaluate and make presentations
  - Interact with people from a diverse range of backgrounds and convey complex information and ideas.
  - Use knowledge and skills to develop appropriate action to solve complex problems in the world.
1. Prepares for a career on the international level, in either the public or private sector.
2. Learn to debate and engage in challenging issues.
3. Communicate effectively and fluently on subjects and issues pertaining to international relations
4. Develop research methodology skills
5. Develop skills for team work, group projects and presentations
6. Equips with the necessary hard and soft skills to influence policy on a global level and impact change in society.
7. Synthesize general concepts and apply them to practical situations in international relations

Possible Careers: Diplomat, Intelligence Analyst, Political Analyst, Policy Officer etc.
Course Title: Journalism & Mass Media

Grade level: Grades 9 & 10

Duration: 1 semester

Periods taught per 10-day cycle: 10 periods
This course is aimed at those curious about journalism and looking to gain a better understanding of what the subject entails. This course gives you a behind-the-scenes look at the professional world of reporters and editors.

The course contains six topics:
1. what makes a good news story
2. writing news & features
3. opinion writing
4. politics and journalism
5. investigative journalism
6. Action research based on case studies in which participants will engage in tasks and discussions that reflect real-life situations in journalism.
Course outcomes

Key Areas of specification:

- Feature Writing
- Print media
- Photography
- Photojournalism
- Investigative journalism
- Magazine design and editing
- On-line journalism
- Electronic media
- Media Management
The course’s purpose is to familiarize learners with not only the history and theoretical aspects of theatre, but also its practical manifestations through playwriting, acting, directing, stage production and theatre management.

This course will develop the learner’s ability:

- To explore and analyze various aspects of Feature Writing
- To involve in Investigative journalism by using a variety of resources to learn more about the topic they are investigating. Reporters will use information from interviews, public records, legal and tax reports, and other federal resources.
- To identify the features of the print media and learn different types of print media in detail
- To explore various print media: newspaper, magazines and periodicals and books
- To demonstrate a knowledge and understanding of Journalism’s professional qualities and ethical standards, including the need to report facts fairly and accurately.
- To demonstrate a knowledge and understanding of media law, etc.
- To analyze the nature of current and upcoming events in order to report meaningful news stories.
- To exercise sound, responsible news judgment even under pressures of immediacy and competition.
Course Title: Nutrition & Health

Grade level: Grades 9 & 10

Duration: 1 semester

Periods taught per 10-day cycle: 10 periods
Brief overview of the course

Ever wondered what really makes a healthy diet? In Food, Nutrition & Your Health you will learn the basic concepts of nutrition, as well as how to follow a diet that will protect you from various health problems.

Starting with the building blocks of basic nutrition, you will learn how these can impact your digestion, energy and health. Find out how eating disorders develop, including the genetic, cultural and psychological factors involved. Finally, you will learn about various diets, including the social and biological factors that have contributed to their evolution.
This course is a crossover into many branches of science, including biology, botany, physiology, zoology, bacteriology, organic chemistry, physics, and biotechnology. The topics covered will include the structure and functions of organic molecules, proteins (amino acids), enzymes, carbohydrates, lipids, nucleic acids, vitamins, minerals, and food additives. It starts with an introduction to organic chemistry and the different organic food groups. Introducing nutrition, dietetics, food processing, diseases, mal function of body systems, food industry, & health-related careers and health-related careers & issues.
If you're wondering what your future could look like in this area, here are some potential careers you could head towards.

- Dietitian
- Food service manager
- Medical nutritional therapist
- Nutritionist
- Workplace health adviser
- Community health adviser
- Health program manager
- Health promotion practitioner
- Public health nutrition policy adviser
- Allied health assistant
- Food service professional
- Dietary assistant
- Nutrition assistant
• Course Title: Visual Arts

• Grade level: 9 & 10

• Duration: 1 Semester / 0.5 Credit

• Periods taught per 10-day cycle: 10 Periods
Visual Arts is an exploratory program designed for high school Learners who have an artistic interest, dedication and enthusiasm they wish to pursue in a structured course of study. The program is a carefully planned arts curriculum that promotes intellectual, aesthetic and emotional growth. Students will take studio classes in drawing, design and sculpture, as well as Art History. The high school Art & Design program is highly valued as integral component in the education of our learners. Assignments are designed to introduce learners to a variety of media and the nature of the creative process. Research, Design, fabrication, Exhibition, Analysis and critique of learner works are all essential components of the curriculum.
Visual Arts course learning outcomes identify the knowledge, skills, attitudes and values all students achieve or demonstrate at the end of Grade 10. The learning outcomes for Visual Arts are listed below.

Students can:
- apply techniques and skills in using art equipment in creating visual art forms
- describe art concepts and approaches
- plan, organize and create art works
- research, analyze, evaluate and compare local and international art forms
- demonstrate understanding of the influence of cultural and historical factors on visual arts
- Recognize, analyze, and describe connections among the arts; between the arts and other disciplines; between the arts and everyday life
- show critical and aesthetic appreciation of art works, forms and styles
- Exhibit, promote and market art works.
Curriculum will assist high school and college transfer students in developing their portfolios for college admissions. Students will be encouraged to portray their inner voices in their body of works. Students continue growing in the visual arts after high school, will sharpen their technical and critical thinking skills, which are necessary to be successful in your college and career pathway. Additionally, the Art & Design are a career field in and of itself. Pursuit of the arts can lead to other career fields such as architecture, design (visual communication and graphic design, fashion design, industrial design, and automotive design), marketing and advertising, and even fine arts teacher/Instructor.

**Explore possible careers**

- Fashion artist/designer
- Interior designer
- Architect
- Art administrator
- Advertising designer
- Ceramic artist
- Illustrator
- Art teacher
Course Title: Graphic Design

Grade level: Gr 9 & 10

Duration: 1 semester

Periods Taught per 10-day Cycle: 10 periods
This course is designed to give students an understanding and practical application of Adobe Photoshop CS5 techniques to create illustrations. In this course, Students learn and apply fundamentals of web design, image editing, drawing and graphic animation. Students will also explore various methods used to create and combine words and symbols. This all is learned in this course to create a visual representation of ideas and messages.
Course Outcomes

Students will:

✓ become familiar with the image editing and enhancement features of the Adobe Photoshop CS5.
✓ use techniques for animating images and creating a web page that users will enjoy visiting.
✓ evaluate images and identifying possible corrections and repair methods.
✓ digitally remove scratches and dust from images and combine images to create a composite image.
✓ know how to apply colour correction, add soft focus effects, sharpen images, frame photos and remove back ground. They will also learn to blend two or more colours.
✓ become familiar with features and layer management techniques, including adding, deleting, reordering, flattening and duplicating layers.
The ability to provide an impressive portfolio of design and artwork alongside your application for university, however, is perhaps most important.

Demand for graphic design courses skyrocket over the last five years.

Design is everywhere; physical spaces, virtual spaces, illustrations, graphics and photographs all influence our daily decisions.

If you're feeling adventurous and want to secure a job overseas, then graphic design is in demand everywhere.

Give opportunities of independence by going freelance.

Obvious career paths for design graduates include web design, interactive media and video editing, interior or fashion design, product design, film and television production or sub-editing within magazines and newspapers or even landscaping.
Course Title: Design & Advertise

Grade level: Gr 9 & 10

Duration: 1 semester

Periods Taught per 10-day Cycle: 10 periods
In this course, the students will design advertisements. They will take up the role of an Advertising Agent. The students will be learning necessary skills to create a cover letter and résumé, to apply for the job. They will also learn to create and produce a flyer using advanced graphic skills. Later, the students extend their skills to create a product catalog that includes a colorful layout. Finally, they will use mail merge to create a personalized invitation to a sales event and a newsletter to inform members about club activities. By the end of this project the students will be expert advertising agents. The students will be learning advanced skills.
Drama

- Course Title: Drama
- Grade level: Grades 9 & 10
- Duration: 1 semester
- Periods taught per 10-day cycle: 10 periods
Brief overview of the course

Drama is a dynamic, collaborative and live art form. This course introduces learners to various types of dramatic literature, from the ancient Greek dramas to modern theatre. The course will focus on creative expression through theatrical performance and design.

Coursework will include:

- Theatre etiquette
- Vocal and physical warm-ups
- Theater vocabulary
- Improvisation
- Pantomime and movement
- Characterization
- Acting Scenes
- Theater history
- Production design and technical theater
Course outcomes

- Learners will become skilled at employing: acting techniques, movement & body control, proper vocalization methods, and the development of characters from different periods and styles of drama.
- Learners will explore historical and cultural studies in theatre and have opportunities to see live professional theater.

Learners will be able to :-

- Define and identify the different periods of theatre history.
- Define, identify, and analyze a selection of plays using basic theatre terminology associated with the different types of theatre.
- Define, identify, and apply dramatic literary critical theory and methods.
- Identify historical, cultural, and biographical contexts for selected plays and their authors.
- Write a short play, act out and/or do dramatic readings from scenes of selected plays, and apply theatrical production techniques learned.
The course’s purpose is to familiarize learners with not only the history and theoretical aspects of theatre, but also its practical manifestations through playwriting, acting, directing, stage production and theatre management.

This course will develop the learner’s ability:

- To acquire knowledge of self and others through participation in and reflection on dramatic experience.
- To develop competency in the communication skills through participation in and exploration of various dramatic disciplines.
- To develop an appreciation for drama and theatre as a process and art form.
Course Title: Research and Study Skills

Grade level: Grade 10

Duration: (2 semesters)

Periods taught per 10-day cycle: 5 periods
This course is designed to help learners develop and use research and study skills that will help them become successful learners. Learners will learn various techniques that will be helpful to them throughout their academic years. The course teaches planning and time management skills, strategies for critical thinking, online research skills and information literacy, methods to improve reading and note-taking, and how to write better research papers and be prepared to do well on tests and exams.

The course is divided into the following components:

- Learning styles and self-reflection
- Reading strategies and text structure
- Note taking from a lecture and from text
- Test preparation and test taking strategies
- Planning, time management, and self-organization skill
- Critical and analytical skills
- Paraphrasing and summarizing techniques
- Research process: choosing and narrowing a topic, taking notes, writing and revising a research project
- Finalizing research paper (APA Style)
- Presentation skills and public speaking
Course outcomes

Students will be able to: -

Cognitive Skills
- Understand the necessity for and expectations of the course.
- Apply and develop skills studied throughout the course.
- Employ critical and analytical skills.
- Reflect on the learning process.

Transferable skills
- Learn effectively and communicate effectively and fluently in speech and writing, including the use of ICT.
- Deploy a range of relevant research skills.
- Use research methodologies appropriately.
- Think critically.

Practical Skills
- Apply self-organization and time management effectively.
Learners will acquire attitudes, knowledge, research, and study skills that contribute to effective learning in school and across the lifespan.

This course focuses on lessons that can enhance the student’s studying and researching skills in English communication.

It lays the foundation and allows the development of high school students to assume responsibility for their own learning, skill development, and behavior that lead to academic success.
Introduction

- Course Title: Algebra 2
- Grade level: Grade 11
- Duration: 2 semesters
- Periods taught per 10-day cycle: 10 periods
Brief overview of the course

- It develops advanced algebra skills such as systems of equations, advanced polynomials, imaginary and complex numbers, quadratics, and concepts and includes the study of different types of functions. The content of this course are important for students’ success on college mathematics entrance exams. Students who complete Algebra II should take Pre-Calculus next.
Course outcomes

- Functions and Operations on functions
- Systems and Inequalities
- Exponential and Logarithmic Functions
  - Exponential growth and decay
  - Graphs of exp. and log functions
  - Solving exp. and log equations
  - Properties
- Rational Functions and Radical Functions
- Sequences and Series
- Statistics and probability
- Trigonometry
Algebra 2 is critically important because it is often viewed as a gatekeeper to higher-level mathematics and it’s a required course for almost every postsecondary school program.

Prepare students for SAT, college and work.
Course Title: Pre-Calculus

Grade level: Grade 11

Duration: (2 semesters)

Periods taught per 10-day cycle: 10 periods
Brief overview of the course

- **Pre-Calculus concepts such as:**
  1- Equations and Inequalities.
  2- Functions and Graphs. (polynomial, Rational, exponential, logarithmic, .....)
  3- Trigonometry. (Graphs, equations, identities and proofs, and applications)
  4- Analytic geometry (Conics).
  5- Systems and matrices.
  6- Statistics and probability.
  7- Limits and Continuity.
By the end of the semester, students should be able to

1. Perform Operations on Functions
2. Analyze the Behavior of Functions
3. Solve Equations
4. Graph functions and relations in rectangular coordinates and polar coordinates.
5. Synthesize results from the graphs and/or equations of functions and relations.
6. Apply transformations to the graphs of functions and relations.
7. Prove trigonometric identities.
8. Graph the basic trigonometric functions and their inverse.
9. Apply matrix operations.
10. Apply properties of limits on functions and study their continuity.
Mathematical Practices

- Pre-calculus is a course designed to:
  1. Introduce you to the fundamental functions and tools of calculus and build on your knowledge of algebra and geometry
  2. Prepare students for future High school or university Calculus courses by covering advanced mathematical concepts, functions and theories that may not be covered in algebra, geometry and other courses in a student’s mathematics curriculum.
Difference between Algebra II and Pre-Calculus.

**ALGEBRA II:**
1- DOES NOT INCLUDE LIMITS AND CONTINUITY

**PRE-CALCULUS:**
1- HIGHER DIFFICULTY LEVEL
2- IS A PREREQUISITE FOR CALCULUS IN GRADE 12.
Course Title: Mechanics & Thermodynamics

Grade level: 11

Duration: Two Semesters

Periods taught per 10-day cycle: 10 periods
Mechanics is concerned with the motion of bodies under the action of forces, including the special case in which a body remains at rest.

This module reviews kinematics (the geometrical description of motion) in the context of one-dimensional, two-dimensional and circular motion. It also reviews Newton’s laws of motion and examines their application to a wide variety of cases.
Brief overview of the course

- Thermodynamics is Concerned with the concepts of thermal (or internal) energy transfers between a system and its environment and the resulting temperature variations.
- This course also includes the physical and chemical transformations of matter in all of its forms: solid, liquid, and gas. Temperature, heat flow, and internal energies will be studied.
Course outcomes

- Students will demonstrate proficiency in mathematics and the mathematical concepts needed for a proper understanding of physics.
- Students will demonstrate knowledge of selected topics from classical mechanics and thermodynamics.
- This knowledge will be applied to analyze a broad range of physical phenomena.
- Students will show that they have learned laboratory skills, enabling them to take measurements in a physics laboratory and analyze the measurements to draw valid conclusions.
- Students will be capable of oral and written scientific communication, and will prove that they can think critically and work independently.
This course will prepare students to:

- Practically apply laws of mechanics, to determine efficiency of simple machines with consideration of friction and resultant of forces or moments, and to elastic collisions and motion of rigid bodies.
- Ability to estimate thermodynamic properties of substances in gas and liquid states and apply fundamental concepts of thermodynamics to engineering applications.
- Analyze industrial problems of heat, mass and momentum transfer and develop steady and time dependent solutions along with their limitations.
• Course Title : Physical & Theoretical Chemistry

• Grade level: Grade 11

• Duration: 2 semesters
• Periods taught per 10-day cycle: 10 periods/cycle
This course describes the fundamental chemical and physical principles and their applications to the properties and transformations of materials, including the concept of energy and its uses, gas laws, kinetic molecular theory, laws of chemical combination, atomic and molecular structure, periodic classification of the elements, and chemical bonding.
Course outcomes

1. Understand matter on the macro and the micro level and be able to identify the changes taking place physically and chemically.
2. Understand the structure of the atom and its ability to form different bonds and eventually forming different compounds and how its nucleus can form radioactive decay.
3. Write chemical reactions and be able to apply the law of conservation of mass through balancing.
This course provides students with the proper knowledge, skills and scientific principles through hands on activities, research and experimentations, and thus preparing students to be ready for real life challenges and problem solving.
Course Title: Introduction to Business

Grade level: 11

Duration: Semester I

Periods taught per 10-day cycle: 10 periods
Introduction to Business will introduce you to the role and purpose of business in our economic system, with emphasis on what everyone should know to function effectively as a consumer, a worker, and a citizen. Furthermore, this course will also:

- Serve as a background for other business courses you may take in high school and college,
- Assist you with consumer decision making and many aspects of personal finance,
- Prepare you for future employment,
- help you effectively perform your responsibilities as a citizen.
Upon completion of this course, students will be able to:

1. Describe the functions of modern business
2. Understand the role of management within a business setting
3. Understand the vocabulary of business so that you may understand others and are able to speak the language of business
4. Find problems in the business environment with the use of case study analysis
5. Formulate a business plan.
During the Business course, learners will develop a broad knowledge of business operations as well as gaining targeted skills in a specific field, such as customers, markets, finance, operations, strategy, business policy, communications and IT.

Students can also expect to gain many valuable transferable skills, which can be put to use in both everyday life or if decide to take a completely different career path. The skills gained from the Business course are likely to include:

- An understanding of how organizations operate
- Strong communication skills (oral and written)
- Analytical and critical thinking
- Problem solving
- Decision making
- Logical thinking
- Presentation and report writing skills
- Self-motivation, initiative and effective time management
- **Possible Careers:** accountancy, advertising, banking, investment and financial services, public relations, retail management.
Marketing Essentials

- Course Title: Marketing Essentials
- Grade level: 11
- Duration: Semester II
- Periods taught per 10-day cycle: 10 periods
Course Overview

- Marketing essentials is the foundational course for all pathways in Marketing Education. It addresses all the ways in which marketing satisfies consumer and business needs and wants for products and services. Students develop an understanding of the functions of marketing and how these functional areas affect all businesses.

- Learners will explore the exciting fields of marketing, sales and management. They will study the basics of marketing in the consumer and industrial marketplace, sales techniques, computers in marketing, cash terminal operation, store security, pricing and career possibilities in sales and marketing.
Course outcomes

- Learn how to assess your market and identify consumer priorities, needs and preferences that affect the marketing mix
- Learn how to set marketing objectives to meet organizational, strategic and operational marketing objectives, and desired positioning
- Analyze distribution channels, promotional methods and customer service provision to determine their importance to marketing outcomes
- Consider product, pricing, promotional, distribution and service variations, and evaluate these against marketing objectives, target market characteristics and desired positioning
- Select marketing mix that best satisfies target market and meets sales objectives
- Apply tools to successfully monitor your tactical implementation against performance and isolate components for testing
Marketing Essentials course allow learners to develop not only their personal skills but also presentation skills. Marketing is all about communication, so studying it will help improve your skills both individually and while team working. This leaves students looking more appealing to future employers as they have the skills that businesses look for, as you can show you understand all the particular elements of marketing.

Marketing course sets individuals up for working in any business in the future and there are a variety of course options you can progress in. Marketing provides for many interesting and engaging career prospects after studying. The topics in a marketing course cover all the various elements of a marketing business environment that helps individuals apply their theoretical knowledge, practically.

Possible Careers: Advertising account executive, Advertising account planner, Advertising art director, Market researcher, Marketing executive, Media planner., Public relations account executive.
Course Title: **Computer Basics & Animation**

Grade level: **Gr 11**

Duration: **Semester II**

Periods Taught per 10-day Cycle: **10 periods**
This course is designed to give students an understanding and practical application of Adobe Flash CS5 techniques to create basic and simple animations. In this course, Students learn and apply concepts as basic as drawing tools and will gradually move to advanced animation concepts such as Tweens, Onion Skinning and Interactive Flash animations with Buttons and Action Script. Students will learn to code using Action Script, giving them more control over their animations.
Course Outcomes

_students will:_

- understand the Flash CS5 Workspace, the drawing tools, the stage, the work area, the timeline and the property inspector.
- use various types of symbols like Graphic, Button and Movie Clip depending on their planning and application of the flash movie.
- learn how and where to effectively use Masking, Shape Tweens, and Motion Tweens and hence sharpen their drawing skills.
- become familiar with features such as motion guide, guide layers and using layers, including adding, deleting and reordering them.
- work with advanced tools like gradient transform tool, deco tools, IK tools and spraying symbols.
- understand the basic concepts of Action Script, use it to code and control the symbols.
Animation is a combination of art and technologies wherein moving images are created in 2d and 3d to impress, educate, and entertain viewers and users.

The application of this form of creation is varied and its scope is unlimited.

Demand for Animation courses has touched the sky over the last decade. With the availability of better animation software in hand, more animation movies and games, including VR games, are under development.

Animation also allows freedom of expression in ways of visuals. It gives you the opportunity to express your ideas in the most fantastic form in the best platform.

If you're feeling adventurous and want to secure a job overseas, then graphic design is in demand everywhere.

Give opportunities of independence by going freelance.

Obvious career paths for animation graduates include advertising, web designing, video making, editing, games development, and even in film industry.
Course Title: 

Computer Literacy & Web Development.

Grade level: **Gr 11**

Duration: **Semester I**

Periods Taught per 10-day Cycle: **10 periods**
This course is designed to give students an understanding and practical application of Adobe Dreamweaver CS5 techniques to create websites. In this course, Students will learn to design websites visually, almost in the same way one would use a word processor like Microsoft Word or Office, without any coding. They will understand the design view and the code view but will use the design view for their projects.
Course Outcomes

Students will:

- understand the Dreamweaver CS5 Workspace, design view, code view and the split view
- create web pages using either a predesigned layout or by from the scratch.
- Add text, colors, and other elements like headings, borders, padding etc. to the pages.
- Format the webpages using various CSS rules.
- Recognize and write basic HTML for the pages – even though you don't have to
- Create and use HTML tables.
- Use CSS to apply styles to your pages and site, and to create interactive features
- Add forms to the webpages
- Publish the website to the web.
Today, the world is dominated by web. Every business is now conducted globally using the web. Dreamweaver CS5 gives the opportunity to tap into this niche and achieve expertise.

Static and dynamic webpages can be created with utmost ease and perfection.

The application of this from of creation is varied and its scope is unlimited.

The best part about the web designing profile is that you can choose to work in either of the IT and non-IT firms. Websites are something that will always be of utmost importance for firms that depend on digital visibility.

If you're feeling adventurous and want to secure a job overseas, then web designing is in demand everywhere.

Give opportunities of independence by going freelance.

Obvious career paths include advertising, web designing, video making and embedding it in websites, designing, maintaining and updating e-commerce websites.
Economics

- Course Name: Economics
- Department: Social Sciences
- Credit Value: 1 credit
- Length: 2 semesters
- Grade level: 11
- Periods Taught per 10-day Cycle: 10 periods
This course is designed to provide a foundation of knowledge about the principles of both micro & macroeconomics. Students will acquire skills necessary to understand economic terms & concepts and economic reasoning; analyze the elements of a market economy in a global setting; analyze the influence of the federal government on the economy; analyze the elements of the labor market in a global setting; analyze aggregate economic behavior of the economy; and analyze issues of international trade and explain how the U.S. economy affects, and is affected by economic forces beyond its borders. A significant focus is placed on the problem of scarcity and supply and demand. The course requires note taking, interpretation of graphs, tables, maps, editorial cartoons, research, oral presentations, the use of primary/secondary materials, and the use of technology (computers and internet).
Introduction to psychology

- Course Name: Psychology
- Department: Humanities
- Credit value: 1 credit
- Length: 2 semesters
- Grade level: 11
- Periods Taught per 10-day Cycle: 10 periods
This course offers students an engaging introduction to the essential topics in psychology. Throughout this study of human behavior and the mind, you will gain insight into the history of the field of psychology, as well as explore current theories and issues in areas such as cognition, motivation, and wellness.
Calculus I

- Course Title: Calculus I with Pre-Calculus.
- Pre-Requisite: Algebra II or Pre-Calculus.

- Grade level: Grade 12

- Duration: (2 semesters)

- Periods taught per 10-day cycle: 10 periods
Brief overview of the course

- **Calculus covers:**
  - Functions and their graphs.
  - Polynomial and Rational fxns.
  - Limits and their properties.
  - Differentiation.
  - Applications of differentiation
  - Integration.
  - Exponential and logarithmic fxns. and calculus.
  - Trigonometric fxns and calculus.
Upon completion of the course, the student will be able to:

1. interpret a function from an algebraic, numerical, graphical and verbal perspective and extract information relevant to the phenomenon modeled by the function.
2. verify the value of the limit of a function at a point using the definition of the limit.
3. calculate the limit of a function at a point numerically and algebraically using appropriate techniques including l’Hospital’s rule.
4. find points of discontinuity for functions and classify them.
5. understand the consequences of the intermediate value theorem for continuous functions.
6. interpret the derivative of a function at a point as the instantaneous rate of change in the quantity modeled and state its units.
7. interpret the derivative of a function at a point as the slope of the tangent line and estimate its value from the graph of a function.
8. sketch the graph of the derivative from the given graph of a function.
9. given a table of function values, approximate the value of the derivative at a point using the forward difference quotient and the centered difference quotient.
10. compute the value of the derivative at a point algebraically using the (limit) definition.
11. derive the expression for the derivative of elementary functions from the (limit) definition.
12. be able to show whether a function is differentiable at a point.
13. compute the expression for the line tangent to a function at a point.
14. interpret the tangent line geometrically as the local linearization of a function.
15. compute the expression for the derivative of a function using the rules of differentiation including the power rule, product rule, and quotient rule and chain rule.
16. compute the expression for the derivative of a composite function using the chain rule of differentiation.
17. differentiate a relation implicitly and compute the line tangent to its graph at a point.
18. differentiate exponential, logarithmic, and trigonometric and inverse trigonometric functions. 19. obtain expressions for higher order derivatives of a function using the rules of differentiation. 20. interpret the value of the first and second derivative as measures of increase and concavity of a function. 21. compute the critical points of a function on an interval. 22. identify the extrema of a function on an interval and classify them as minima, maxima or saddles using the first derivative test. 23. use the differential to determine the error of approximations. 24. understand the consequences of Rolle’s theorem and the Mean Value theorem for differentiable functions. 25. find the anti-derivative of elementary polynomials, exponential, logarithmic and trigonometric functions. 26. interpret the definite integral geometrically as the area under a curve. 27. construct a definite integral as the limit of a Riemann sum. 28. approximate a definite integral using left sum, right sum, midpoint and trapezoidal rules. 29. interpret the indefinite integral as a definite integral with variable limit(s). 30. interpret differentiation and anti-differentiation as inverse operations (Fundamental Theorem of Calculus, part 1). 31. interpret the anti-derivative as a definite integral with variable limit and implement this expression on graphing platforms. 32. evaluate a definite integral using an anti-derivative (Fundamental Theorem of Calculus, part 2). 33. use substitution to find the anti-derivative of a composite function. 34. apply basic optimization techniques to selected problems arising in various fields such as physical modeling, economics and population dynamics.
Mathematical Practices

- Mathematics is the language of Science, Engineering and Technology. Calculus is an elementary Mathematical course in any Science and Engineering Bachelor. Pre-university Calculus will prepare you for the Introductory Calculus courses by revising four important mathematical subjects that are assumed to be mastered by beginning Bachelor students: functions, equations, differentiation and integration. After this course you will be well prepared to start your university calculus course. You will learn to understand the necessary definitions and mathematical concepts needed and you will be trained to apply those and solve mathematical problems. You will feel confident in using basic mathematical techniques for your first calculus course at university-level, building on high-school level mathematics.
Math for Business & Personal Finance

- Course Title: Math for Business & Personal Finance
- Grade level: 12
- Duration: 2 Semesters
- Periods taught per 10-day cycle: 10 periods
Course Overview

- Business Math is a course designed for students to apply business applications in the real world. This course will help students manage their personal finances effectively in the future. Units include how to manage your money, expenses, and how to make financial decisions. Topics will include gross pay, net pay, budgeting, checking & savings accounts, credit cards & credit scores, and vehicle leasing and purchasing.
Course outcomes

By the end of this course, students will:

- Know the basic mathematic skills used in everyday business and personal finance.
- Understand the importance of math and financial literacy in relation to being an informed consumer.
- Be able to calculate and compare business and personal finance numbers such as:
  - Income Figures
  - Budgets
  - Bank Accounts
  - Interests
  - Taxes
  - Loans
  - Investments
Business ownership requires more than skill in creating a product or talent at providing a service. Overseeing the finances of your company is key to survival and success. Understanding basic business math is necessary for profitable operations and accurate record keeping. Knowing how to add, subtract, multiply, divide, round and use percentages and fractions is the minimum you need to price your product, meet your budget, analyze your risks, and interpret business-related data.

Skills developed through this course include:

- critical thinking.
- problem solving.
- analytical thinking.
- quantitative reasoning.
- Data Interpretation

Course Title: Entrepreneurship

Grade level: 12

Duration: 2 Semesters

Periods taught per 10-day cycle: 10 periods
Course Overview

- Starting your own business can be exciting, rewarding, and challenging. You can do what you enjoy and be your own boss. But where should you begin? Entrepreneurship introduces the basic concepts of starting your own business including the key role entrepreneurs play in the American economy. Students learn about their own business skills and discover ways to develop them. Students evaluate business trends and recognize domestic and global economic opportunities for today’s entrepreneurs.
Course outcomes

- Introduce basic concepts of entrepreneurship
- Identify the key roles of entrepreneurs in the American economy
- Describe key traits and characteristic of successful entrepreneurs
- Evaluate business trends
- Recognize economic trends and opportunities
- Discuss global challenges facing entrepreneurs today
- Research and plan a business venture
- Identify types of business ownership
- Develop a basic understanding of the three categories of laws related to starting a business
- Learn how to research and analyze a target market
Entrepreneurship education benefits learners from all socioeconomic backgrounds because it teaches students to think outside the box and nurtures unconventional talents and skills. Furthermore, it creates opportunity, ensures social justice, instills confidence and stimulates the economy.

With the recent transformation in the economy and education system, entrepreneurship has marked its space in modern education. Apart from knowledge, there are a set of skills which the subject effectively delivers:

- **Creativity**: Studying Entrepreneurship is a great platform for aspirants who want to showcase their creative side. The subject demands a student to be creative and enhances their thought process to ensure better results.

- **Management**: One of the most imperative skills required in the modern workplace is Management. A course in entrepreneurship enables a student to attain management skills. The study ensures an appropriate understanding of the basic fundamentals of a business. These management skills could be practiced either in one’s own venture or at the workplace.

- **Critical Thinking**: Analyzing the issues and effectively working on it can be a tough task. A student learning entrepreneurship is exposed to the opportunities where he learns to critically analyze a situation and come to a smart decision.

- **Possible Careers**: Entrepreneur, Business Consultant, Sales, R&D.
Heredity

- Course Title: Heredity and Physiology II
- Grade level: 12
- Duration: 2 Semesters
- Periods taught per 10-day cycle: 10 periods
Brief overview of the course

This course provides a basic study of the structure and function of some body systems of the human body. It covers principles of prokaryotic and eukaryotic cell genetics. Emphasis is placed on the molecular basis of heredity, chromosome structure, patterns of inheritance, evolution, and biotechnological applications.

Upon completion, students should be able to recognize and describe genetic phenomena and demonstrate knowledge of important genetic principles. Laboratory exercises include specific organ dissections and observations of physiology. Laboratory work includes dissection of preserved specimens, microscopic study, physiologic experiments, computer simulations, and multimedia presentations with a term lab theoretical and practical assessment.
Course outcomes

• **Structure and Function:**
  HS-LS1-1 Construct an explanation based on evidence for how the structure of DNA determines the structure of proteins which carry out the essential functions of life through systems of specialized cells.
  HS-LS1-2 Develop and use a model to illustrate the hierarchical organization of interacting systems that provide specific functions within multicellular organisms.

• **Inheritance and Variation of Traits:**
  HS-LS3-1 Ask questions to clarify relationships about the role of DNA and chromosomes in coding the instructions for characteristic traits passed from parents to offspring.
  HS-LS3-2 Make and defend a claim based on evidence that inheritable genetic variations may result from: (1) new genetic combinations through meiosis, (2) viable errors occurring during replication, and/or (3) mutations caused by environmental factors.
Course outcomes

HS-LS3-3 Apply concepts of statistics and probability to explain the variation and distribution of expressed traits in a population. Natural Selection and Evolution

HS-LS4-3 Apply concepts of statistics and probability to support explanations that organisms with an advantageous heritable trait tend to increase in proportion to organisms lacking this trait.

HS-LS4-4 Construct an explanation based on evidence for how natural selection leads to adaptation of populations.

HS-LS4-5 Evaluate the evidence supporting claims that changes in environmental conditions may result in: (1) increases in the number of individuals of some species, (2) the emergence of new species over time, and (3) the extinction of other species.
General Academic Goals and college preparation.

- Study the nervous, endocrine, and reproductive systems (including plants as living organisms) and how they are related in reproduction process.
- Understand meiosis, replication, transcription, and duplication and their effect.
- Analyze different genetically problems and be able to draw Punnett squares and give ratios of phenotypes and genotypes (autosomal and sex chromosomal).
- Understand mutation and its effect in natural selection and adaptation.

General Skills:

- Evaluation skills: making judgment about knowledge by introducing new text to solve and tackle problems using the related knowledge taught.
- Comprehension: given scientific text or diagrams to analyze and answer questions about, summarize, compare, relate, or experiment...
- Communication and social skills: Making movies, ppt., projects, interviews, and presenting the work either individually or with a peer or as a group.
- Investigative skills: lab work, research, journals, experimentation
- Mathematical skills: related to investigations in the lab and application in projects.
- Technological skills used in science and computer labs.
- Knowledge skills: list, define, show, demonstrate, invent, relate etc... using the taught concepts.
Course Title: Waves
Grade level: 12
Duration: Two Semesters
Periods taught per 10-day cycle: 10 periods
This course introduces the properties and mechanics of waves, from the derivation and solution of wave equations, through the origins of the classical processes of refraction, dispersion and interference, to the quantum mechanical phenomenon of the uncertainty principle. It will arm students with a basic knowledge of wave behavior and propagation, together with techniques for their quantitative analysis and application to a range of physical systems. It will further provide a fundamental base from which to examine wave aspects of electromagnetism and quantum mechanics in subsequent courses.
Course outcomes

Having successfully completed this module, students will be able to:

- Express the nature of wave propagation and its physical mechanisms
- Differentiate interference and diffraction and diffraction gratings
- Define dispersion and the phase and group velocities
- Depict the energy and momenta of wave motions
- Derive the solution of wave equations
- Distinguish the travelling and standing wave solutions
Much of today's technology is based on some of the fundamental principals and concepts to be studied in this unit. This makes the study of these topics paramount in the sustain and furthering of our society.

As we continue to explore space and the world around us we will rely on technology that uses waves of some form, from the radio and television broadcasts we use for entertainment, to the sonar, radar, and stealth technologies we use to defend our country.

Studying waves, sound, and light in concept, experimentally, and practically will give the student a broader sense of the science of physics which will prepare them for the higher level physics courses they will be taking in colleges.

The experiences that the student has working with waves will help the student to become more scientifically literate and ready to continue in the profession of science or alternate scientific areas.
Course Title: Analytical & Organic Chemistry

Grade level: Grade 12

Duration: 2 semesters

Periods taught per 10-day cycle: 10 periods/cycle
This course introduces the chemistry that is important to biological processes, and. It includes organic molecules, chemical reactions, acids/bases, titration, equilibrium, stoichiometry, ions behavior and colligative properties. Emphasis is on the aspects of general, organic, and biological chemistry that apply to biological systems and processes.
Course outcomes

1. Understand the interaction of matter through the analysis of acids/bases in titration and how ions interact in ionic reactions.
2. Apply stoichiometric calculations to the 6 different kinds of chemical reactions.
3. Relate Chemistry to biology through the study of organic compounds.
This course provides students with the proper knowledge, skills and scientific principles through hands on activities, research and experimentations, and thus preparing students to be ready for real life challenges and problem solving.
Course Title: **Computer Programming**

Grade level: **Gr 12**

Duration: **Semester I**

Periods Taught per 10-day Cycle: **10 periods**
This course serves as an introduction to computer programming using VISUAL BASIC.NET. The emphasis is on the fundamentals of structured design of forms, development and coding, debugging and execution. In this course, the main concepts of programming such as the IDE (Integrated Development Environment), language syntax, datatypes and variables, various tools and event handlers and coding, will be demonstrated and implemented in the computer lab using Microsoft Visual Studio.
Course Outcomes

Students will:

- design, create, build, and debug Visual Basic applications.
- explore Visual Basic’s Integrated Development Environment (IDE).
- implement syntax rules in Visual Basic programs.
- explain variables and data types used in program development.
- apply arithmetic operations for displaying numeric output.
- write and apply decision structures for determining different operations.
- write and apply loop structures to perform repetitive tasks.
- write and apply procedures, sub-procedures, and functions to create manageable code.
- use Menus and tool bars to give the forms more use of the functionality.
- debug and execute a complete program.
At its heart, coding is expression and problem solving. If these two essential skills are cultivated it will help in all aspects of life.

Besides existential value, learning to code proficiently will offer numerous job opportunities, the ability to create your own schedule, work from anywhere, flexible timing etc.

The following skills can be developed after learning a programming language:

1. **Analytical Skills.** Computer programmers must understand complex instructions in order to create computer code.

2. **Concentration.** Programmers must be able to work at a computer, writing lines of code for long periods of time.

3. **Detail Oriented.** Computer programmers must closely examine the code they write because a small mistake can affect the entire computer program.

4. **Troubleshooting Skills.** An important part of a programmer’s job is to check the code for errors and fix any they find.

Gives opportunity of independence by going freelance.

Obvious career paths for programming graduates includes being a programmer and learning all the time, move to the management side of things, start your own company and acquire outsourced work.
Mass Communication

- Course Title: Mass Communication
- Grade level: 12
- Duration: Semester II
- Periods taught per 10-day cycle: 10 periods
Mass Communication is a multidisciplinary subject. During the course of your semester you would be given the opportunity to explore and understand the various models of communication at the same time enhancing your public speaking skills. We would also be giving you an insight into a wide array of Mass Media opportunities, from the different professions ranging from various media platforms (electronic, print, digital and social) to Public Relations, HR Management, International Relations, Inter Cultural Communication, Advertising, Journalism, Event Management and Marketing communications.

In order to flourish in the fields stated, the easiest recipe to have a successful and bright future in mass communication is to keep working hard by means of your creativity and talent.

In the Mass Communications course, we pride ourselves on giving our students both the understanding they need to succeed as well as the practical skills required through in house internships field trips outside the school.
The Mass Communication Program prepares students to be able to do the following:

- To demonstrate effective speaking and listening skills for communication in personal, public, and media areas.
- To demonstrate effective writing skills for communication in personal, public, and media areas.
- To demonstrate the ability to observe events, gather information, write news reports and news releases, report on events, and edit other people’s writings.
- To demonstrate the ability to understand the media critically and recognize how media shape and are shaped by politics, society, culture, economics, and daily lives.
- To demonstrate the ability to recognize the power of persuasion and ethical responsibilities of communicators in communication at all levels.
- To demonstrate an understanding of the roles of communication in fostering interaction and interdependence across gender, race, and culture.
- To demonstrate the ability to apply communication theories to analyze contemporary problems.
- To demonstrate an understanding of the history, development, and practice of the print media, electronic media, and the new media.
At the end of the semester the students would be equipped with the knowledge and understanding of the choices they can make once they join university.

Here are just a few things they would be ready for, once they join college.

They would be able to:

- Identify mass communication theories, trends, processes, and models.
- Recognize and analyze the mass problems in their country and effectively design media strategies that will provide solution to these problems.
- Use media to present plan of action that can meet the expectations of their local people.
- Discuss the role of mass media in a liberal democracy.
- Discuss various aspects of the media of mass communication, including historical development and the attendant economic, social and aesthetic impact on mass culture.
- Critically analyze the ways in which mass communication media have influenced individual and mass consciousness.
- Synthesize all course related material in an effort to develop strategies to interpret and assess the impact of the media in their daily lives.
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