



## MA30101 Foundation Mathematics 1

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<b>Teacher</b>	Mr. Shiv Kumar
<b>Contact</b>	Science Lab, 2 <sup>nd</sup> Floor Colombet Building. skkumarshiv100@gmail.com
<b>Class Time</b>	EP-M4/1: Wednesday Period 3, Friday Period 2 EP-M4/2: Tuesday Period 1, Thursday Period 6
<b>Credits</b>	1.0

### Course Description

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#### Before midterm exams:

Real number system, set of real numbers and properties of real number, work on polynomials with one variable, working with inequalities, one variable inequality, two variable inequality quadratic inequality, square root inequality and, absolute value inequality.

#### After midterm exams:

After the midterm exams, the topic: exponents, rational exponents, law of rational exponents and exponential equations along with the topics such as set theory and inductive and deductive reasoning.

In general, the key competencies for the math course are: 1. Communicative ability 2. Thinking ability 3. Problem solving ability 4. Ability to use life skills 5. Technological ability  
The key process skills are: 1. Problem solving 2. Reasoning 3. Communicating the meaning 4. Connecting 5. Creative thinking

### Textbook

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[Book 1] Barron's SAT Math Level 1, 13<sup>th</sup> Edition.

[Book 2] IGCSE Cambridge International Mathematics Extended (0607), 2015 Edition \* *For new students, or those who have lost this EP3 textbook, I will have a shared online version.*

Additional teacher handouts

### Online resources

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*Khan Academy, Kahoot and Schoology*

### Course Outline & Objectives

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Learning Unit 3: **Real Numbers [Strand 1, Standard MA1.1, Indicators S.4/3]**, Book 1  
Ch. 3 & 9F

1. Real Number system and properties
2. Inequalities:
  - Properties of inequalities
  - Inequality solutions on a number line or interval notation
  - Solving inequality with one variable and quadratic inequalities
  - Solving radical inequalities (and equations)
  - Solving graphical inequalities
3. Absolute value: solving absolute value equations & inequalities

End of Midterm Exam Content – Start of Final Exam Content
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Learning Unit 4: **Rational exponents [Strand 1, Standard MA1.1, Indicators S.5/1]**, Book 1 Ch. 6

1. Laws of indices (basic, negative and fractional)
2. Solutions to exponential equations
3. Scientific notation
4. Dealing with surds

Learning Unit 1: **Sets [Strand 1, Standard MA1.1, Indicators S.4/1]**, Book 1 Ch. 2

1. Types of numbers & sets and their notation
2. Subsets and power sets

Learning Unit 2: **Reasoning [Strand 4, Standard M4.1, Indicators S.4/1]**, Class notes

1. Inductive Reasoning
2. Deductive Reasoning

### **Resources**

Required	<input type="checkbox"/> At least 3 notebooks (2 white, 1 pink)
	<input type="checkbox"/> Scientific calculator (not a phone-based application)
	<input type="checkbox"/> Ruler
	<input type="checkbox"/> Glue stick, stapler, or tape
Suggested	<input type="checkbox"/> Many different colored pens/markers/highlighters
	<input type="checkbox"/> Electronic Thai-English translator (not a phone-based application)

### **Academic Integrity Policy**

Students are expected to adhere to the Assumption College student handbook. There is to be no plagiarism, no copying, and no cheating of any kind. These and any other acts of academic dishonesty lower the quality of the education and will not be tolerated. Students involved in any form of academic dishonesty, including any student supplying or allowing the copying to take place, will receive a zero.

Plagiarism is the act of taking someone else's work or ideas and passing them off as one's own work or ideas. Examples of plagiarism include the failure to give appropriate acknowledgement when repeating another's idea, phrase, sentence or paragraph, or failure to give appropriate acknowledgement when paraphrasing any of those.

### **Behavioral Expectations**

For the sake of all the members of the class, students are expected to respect themselves, their classmates, the teacher, and the facilities. Students must accept responsibility for themselves and their actions. Students are expected to be ready at the start of every class (Notebooks, textbook, scientific calculator, writing utensils, etc.) and to actively participate throughout the lesson until class is dismissed.

Behavior is monitored every day as per the class rules that are set out at the beginning of the academic year (see the front of your note books). At the end of the semester the average is taken and used for the student's behavior score (10%). Students *earn* the scores they receive.

Additionally, all Thai students are expected to embrace the following *desired characteristics*:



- Love for the country and the King, faith in religion
- Possess discipline
- Be self-sufficient
- Proud to be Thai
- Be an AC gentleman
- Eager to learn
- Dedicated to work
- Have a sense of public consciousness
- Be honest and upright

### **Attendance & Tardiness**

Attendance will be taken at the start of every class. Students are expected to be in class on-time, every time. Unexcused absences or tardiness will not be tolerated. In the case of planned absences, please notify the teacher in as far in advance as possible. Students are expected to catch up on all missed work outside of class time.

### **Homework & Classwork**

Homework and classwork will be assigned often and must be submitted on or before the due date. All late or missed assignments that are not turned in *before* the last week of the term, get 0%.

### **Grading**

This course follows to the Assumption College grading scale:

<i>Final Score</i> ≥ 80%	4.0
75% ≤ <i>Final Score</i> < 80%	3.5
70% ≤ <i>Final Score</i> < 75%	3.0
65% ≤ <i>Final Score</i> < 70%	2.5
60% ≤ <i>Final Score</i> < 65%	2.0
55% ≤ <i>Final Score</i> < 60%	1.5
50% ≤ <i>Final Score</i> < 55%	1.0
<i>Final Score</i> < 50%	0.0

### **Evaluation and Assessment**

The final semester grade for this course out of 100% is broken down as follows:

Class work	20%
Class Participation	10%
Note book	10%
Behavior	10%
Quizzes	10%
Midterm (Summative) Exam	20% (program mandated)
Final Exam	20% (program mandated)



### **Recommendations for Success**

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Mathematics can be a difficult course for many students. All students are encouraged to try the following:

1. Read, read, read the course textbook. Often, reading the text once is not enough even for native English speakers. You may need to read the material multiple times to understand. By reading along at home with the lessons taught at school (typically only a few pages per night), students will be able to responsibly manage the material and gain the most from the course.
2. Search online, in either Thai or English, if you don't understand a topic discussed in class or simply to get a better understanding of the topic.
3. Get a Thai language introductory mathematics book.
4. Do **not** copy your classmates work; struggle through and do the work on your own! This is how you learn!
5. Come see the teacher outside of class time for assistance.
6. Do more than just the bare minimum; there are plenty of problems in the textbook. We only have time for so many of them. Do the review questions at the end of the chapter and see the teacher for the answers.
7. Study the notes and vocabulary at least a few minutes every day, such as in homeroom or during any free time you might have in other classes.



## MA30213 Universal Mathematics 1

**Teacher** Mr. Robert John Sylvester III

**Class Time** EP-M4/1: Mon, Period 4; Thurs, Period 6

EP-M4/2: Mon, Period 7; Thurs, Period 3

**Credits** 1

### Course Description

Thailand's Basic Education Core Curriculum B.E. 2551 (A.D. 2008) prescribes the mathematical understanding and skills for grades 10 to 12. The following table shows how MA20221 is related to the Ministry of Education's standards. The topics explored by each MA20221 unit are highlighted in **bold type**.

### Textbook

Higher Level Mathematics Pearson Baccalaureate: Developed for IB Diploma

*Teacher will also supply additional hand outs and online learning material (Khan, Kahoot, YouTube videos, etc)*

Unit	Topic
1	<b>Sets</b> 1. Types of Sets 2. Equality of Sets 3. Venn-Euler Diagram 4. Operations of Sets: Union, Intersection, Complement and Difference 5. Members of finite sets and solutions
2	<b>Foundation of Number Theory</b> 1. Division without remainders 2. Procedure for division 3. Greatest Common Divisor (GCD) 4. Least Common Multiple (LCM)

### Basic Resources

Pen, pencil, ruler, eraser, calculator.

White notebook, A4 plastic portfolio (to keep all student work and handouts)

### Behavioral Expectations

Students are expected to respect themselves, their classmates, the teacher, and the facilities. Students must accept responsibility for themselves and their actions. Students must speak English in class. Students are expected to be ready at the start of every class (notebooks, textbook, scientific calculator, writing utensils, etc.) and to actively participate throughout the lesson until class is dismissed.

Behaviour is monitored every class. At the end of each semester, the points are accumulated and used for the student's behaviour score (10%).



### Homework & Classwork

An assessment item must be submitted on or before the due date. **An assessment item submitted later than the due date, without an extension from the teacher, will be subject to a penalty (deduction of marks).** Late homework, however, may be completed and submitted to qualify towards eligibility for exams. At the end of the semester, if the students have not completed enough homework assignments to pass this aspect of the course, additional work will be set for them.

### Grading

This course adheres to the Assumption College grading scale:

$Final\ Score \geq 80\%$	4.0
$75\% \leq Final\ Score < 80\%$	3.5
$70\% \leq Final\ Score < 75\%$	3.0
$65\% \leq Final\ Score < 70\%$	2.5
$60\% \leq Final\ Score < 65\%$	2.0
$55\% \leq Final\ Score < 60\%$	1.5
$50\% \leq Final\ Score < 55\%$	1.0
$Final\ Score < 50\%$	0.0

### Evaluation and Assessment

The final semester grade for this course out of 100% is broken down as follows:

Assignments	25%
Tests	25%
Behaviour	10% (program mandated)
Midterm Exam	20% (program mandated)
Final Exam	20% (program mandated)

### Recommendations for Success

Mathematics can be difficult for many students. All students are encouraged to do the following:

1. Read the course textbook. You may need to read the material multiple times to understand. By reading along at home with the lessons taught at school (typically only a few pages per night), students will be able to responsibly manage the material and gain the most from the course.
2. Complete all forms of assessment and submit all homework and assignments.
3. Search online, in either Thai or English, if you do not understand a topic discussed in class or simply to get a better understanding of the topic.
4. Do not copy the work of your classmate's work; try to struggle through on your own. This will help you learn.
5. Come see the teacher outside of class time for assistance.
6. Do more than just the bare minimum; do the additional problems in the textbook and the review questions at the end of the chapter and check your answers.
7. Study the notes and vocabulary at least a few minutes every day.



## **HP30101 Foundation Health Studies & Physical Education 1**

**Teacher** Mr. Brian Mallon, Health & Physical Education

**Contact** 2<sup>nd</sup> Floor Colombet Bldg.  
bmal1332@gmail.com

**Credits** 0.5

### **Course Description**

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Students will study a Health component and a Physical Education component under the one unit in M4.

Students will learn the process of maintaining working efficiency of organ systems, enforcement process and workings of the integumentary system, skeletal and muscular systems, methods for planning health care according to conditions, growth, and development of oneself and family, family, peer and social development. Students will learn the cultural factors affecting sexual behaviors, sexual deviation and ways of life in society. Students will discover the nature of emotions, occurrence of sexual emotions, and strategies to deal with the prevention of sexually transmitted infections.

Students will acquire the skills on how to reduce conflicts occurring between students or youth in the community, recognize advertisements promoting physical health and propose methods to prevent illnesses and death in Thai people.

Students will continue to discover foundation physical education with a focus on individual ability to increase team capacity. At the same time, students have to show movements creatively, participate in recreation activities outside schools, and consider the effects on other people by showing good manners, observing with enthusiasm, sportsmanship and admiring values and beauty of sports.

Students will establish knowledge and understanding, practical skills, problem-solving skills, decision-making skills, value to create knowledge, understanding to real-life situations with morality, ethics, honesty, disciplines, responsibility, being free from addictive substances and allurements, democracy and justice.

### **Textbook**

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*No textbook required for this unit*

### **Physical Education Indicators**

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1. Play/model at least 1 Thai sport and 1 international sports individually and on teams.
2. Show movements creatively.
3. Joint recreation activities outside schools and use the principles and concepts to improve and develop the quality of one's life and society.
4. Exercise and play sports regularly and properly to one's capacity, and use one's ability to increase team capacity, reduce ego, and consider effects to the society.
5. Explain and practice rights, rules, regulations, and tactics during the games and competitions with other people, conclude them as guidelines, and use them in daily life continuously.



6. Express good manners of watching, playing, and competing sports with sportsmanship and use them in daily life continuously.
7. Join physical activities and play sports happily and admire the values and beauty of sports.

### **Health Indicators**

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1. Explain reinforcement process and process of maintaining working efficiency of organ systems.
2. Plan health care according to growing conditions and development of oneself and other people in the family.
3. Analyze the influence of family, peers, society, and culture affecting sexual behaviors and ways of life.
4. Analyze sexual values in Thai and other cultures.
5. Choose proper skills to prevent and reduce conflicts and to solve sexual and family problems.
6. Analyze causes and effects of conflicts occurring between students or youth in the community and propose the solutions.
7. Analyze personal roles and responsibilities to health promotion and disease prevention in the community.
8. Analyze influence of health advertisements for consuming selection.
9. Conduct oneself according to consumer rights.
10. Analyze causes and propose methods to prevent illnesses and death in Thai people.
11. Analyze the concept about different types of movements when playing sports.

### **Course Outline & Objectives**

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#### **Physical Education Component**

- 1. Exercises and Playing Sports / Physical Fitness Test / Games** [Indicators – 1, 2, 6, 7]
  - Test of Physical Fitness
  - Exercises, playing sports or games
- 2. Movements in Exercising and Playing Sports Creatively** [Indicators – 1, 2, 3, 4, 5, 6, 7]
  - Physical movement in practicing athletic skills and exercises.
  - Physical connection in practicing athletic skills and exercises.
  - Physical connection and movement to warm-up for athletics.
  - Physical connection and movement in practicing badminton skills
  - Physical connection and movement in practicing basketball skills
- 3. Badminton: Rules / Regulations / Competitions Methods** [Indicators – 1, 2, 4, 5, 6, 7]
  - Rules and regulations in competitions.
  - Planning for attacks and defenses.
  - Types of Gameplays (e.g. teams/doubles, mixed doubles)
  - Good manners of watching and playing sports
  - Sportsmanship
  - Good personalities
  - Playing sports happily
  - Admiring the value and beauty of sports





- Etiquette
- Basic Movements

**4. Basketball: Rules / Regulations / Competitions / Skills [Indicators – 1, 2, 3, 4, 5, 6, 7]**

- Team playing and competition.
- Tactics of attacking-defending.
- Sportsmanship
- Cooperation in participating activities.

**Health Component**

**1. Planning of One’s Health Care [Indicators – 2, 3, 5, 6, 7, 10,]**

- Body Mass Index
- Definition and importance of planning of one’s health care
- Factors affecting growth and development of teenagers
- Methods of one’s health care

**2. Work Efficiency of System of Body Composition [Indicators 1]**

- Integumentary system
- Skeletal system
- Muscular system

**3. Teenagers and Sexual Behaviors [Indicators – 2, 3, 4, 7, 10]**

- Definition and importance of teenagers and sexual behaviors
- Factors affecting sexual behaviors
- Sexual deviation

**4. Sexual Transmitted Infections [Indicators – 1, 2, 3, 4, 5]**

- Definition and importance of sexually transmitted infections
- HIV / AIDS
- Venereal diseases

**Resources**

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|-----------|---|
| Required  | <ul style="list-style-type: none"><li>• School Physical Education Uniform (a note explaining why the student is out of uniform is required or a behavior score of 0 for this lesson)</li></ul> <p>Pink resource booklet for note taking (Reminder that any handouts must be stapled or glued into the pink resource).</p> |
| Suggested | <ul style="list-style-type: none"><li>• Fitness and sport activities at least 1-hour each day</li></ul>   |

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### **Behavioral Expectations**

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For the sake of all the members of the class, students are expected to respect themselves, their classmates, the teacher, and the facilities. Students must accept responsibility for themselves and their actions. Students are expected to be ready at the start of every class (in PE uniform) and to actively participate throughout the lesson until class is dismissed.

Additionally, all Thai students are expected to embrace the following *desired characteristics*:

- Possess discipline
- Eager to learn
- Be an AC gentleman
- Dedicated to work

### **Attendance & Tardiness**

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Attendance will be taken at the start of every class. Students are expected to be in class on-time, every time. Unexcused absences or tardiness will not be tolerated. In the case of planned absences, please notify the teacher as far in advance as possible. Students are expected to catch up on all missed work outside of class time.

### **Homework & Classwork**

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Homework in Physical Education is limited, however any Homework and must be submitted on or before the due date. Late assignments can be submitted for a maximum of 50% up until the last week of the term. All late or missed assignments that are not turned in *before* the last week of the term will receive a zero.

### **Grading**

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This course follows to the Assumption College grading scale:

<i>Final Score</i> $\geq$ 80%	4.0
$75\% \leq$ <i>Final Score</i> < 80%	3.5
$70\% \leq$ <i>Final Score</i> < 75%	3.0
$65\% \leq$ <i>Final Score</i> < 70%	2.5
$60\% \leq$ <i>Final Score</i> < 65%	2.0
$55\% \leq$ <i>Final Score</i> < 60%	1.5
$50\% \leq$ <i>Final Score</i> < 55%	1.0
<i>Final Score</i> < 50%	0.0



### **Evaluation and Assessment**

The final semester grade for this course out of 100% is broken down as follows:

Quizzes	20% (formative scores)
Fitness Tests and Assignments	20% (formative scores)
Affective Domain	20% (program mandated)
Midterm Exam	20% (program mandated)
Final Exam	20% (program mandated)

### **Recommendations for Success**

Physical Education is to be enjoyed. All students are encouraged to try the following:

1. Look to do some form of Physical Activity every day.
2. Look to visit parks and tracks where the required fitness testing can be practiced.
3. Come see the teacher outside of class time for assistance.
4. Try new sports. We all have different sports we like and different sports we are good at. We encourage students to learn more about their favorite sports on ‘YouTube’ and other media platforms. If you never try, you will never know if you like it!
5. See PE and movement as an *opportunity* to improve your health and well- being, not a chore. Your teenage years are the most important years to be active and can affect the quality of life you have as an adult.



## **EN30101 M4 Foundation English**

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**Teacher** Mr. Jonas Godson

**Contact** EP Teacher Room, 2<sup>nd</sup> Floor Colombet Building.  
jonasinthailand@gmail.com

**Credits** 1.5

### **Course Description**

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The Foundation English course focuses on laying solid groundwork on basic grammar, speech, reading and vocabulary skills. Using an integrated learning methodology, this course aims to give students the more advanced skills needed to converse in English.

For reading, the focus will be on predicting, scanning, skimming, inference and sequencing. Writing will be more focused on essays and complex paragraphs. Speaking and listening will be integrated into activities, but phonetics and correct pronunciation will be highlighted. There will be an opportunity for students to demonstrate and apply their knowledge in group and individual projects.

This course will follow the content of the course book, with a few extra adaptations and activities where necessary.

### **Textbook**

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Cambridge Prepare B2  
Level 7

### **Course Outline & Objectives**

#### **Weeks 1 & 2: p. 1-22. Unit 1: Creative Minds**

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- Vocabulary:** Understanding meaning from context.  
Matching words and definitions  
Applying learned vocabulary in full sentences.
- Reading:** Skimming to make predictions.  
Scanning for specific information  
Sequencing information  
Identifying main ideas and supporting information from text.
- Writing:** Synthesizing information in complete paragraphs.  
Write compare and contrast paragraphs.  
Writing an opinion paragraph
- Grammar:** Modal verbs, continuous tenses, prefixes

#### **Weeks 3 & 4: p. 23-46. Unit 2: Addicted to Fashion**

- Vocabulary:** Understanding meaning from context  
Matching words and definitions  
Applying learned vocabulary in full sentences
- Reading:** Skimming to make predictions  
Scanning for specific information  
Sequencing information  
Identifying main ideas and supporting information from text
- Writing:** Synthesizing information in complete paragraphs



- Write compare and contrast paragraphs  
Writing an opinion paragraph
- Grammar: First and second conditionals, pronoun references, modifiers, adverbs of manor
- Weeks 5 & 6: p. 47-68. Unit 3: All in the mind**
- Vocabulary: Understanding meaning from context.  
Matching words and definitions  
Applying learned vocabulary in full sentences
- Reading: Interpreting maps  
Skimming to make predictions  
Identifying main ideas  
Identifying supporting ideas  
Identifying meaning from context
- Writing: Thesis statements  
Writing descriptive paragraphs
- Grammar: Past Simple vs. past perfect, used to
- Weeks 7 & 8: p. 69-92. Unit 4: Take it easy**
- Vocabulary: Understanding meaning from context  
Matching words and definitions  
Applying learned vocabulary in full sentences
- Reading: Interpreting maps  
Making predictions  
Scanning for key details  
Interpreting information from a multimodal context  
Understanding a process
- Writing: Introduction paragraphs  
Opinion paragraphs
- Grammar: Using parallel structures, conjunctions, sequence words
- Week 9: Project. Tourism in Thailand (Handouts in class)**  
Students will use previously taught skills and vocabulary to produce a written guide to Thailand for tourists. They will then present this to the class and answer questions.
- Week 10&11: Review and Midterm exams.**
- Content: Modal verbs, continuous tenses, conditionals, past simple vs. past perfect  
Sequencing and synthesizing information.  
Thesis statements  
Opinion paragraph (relating to texts)  
Reading and understanding non-text information (i.e., maps)  
Taught vocabulary

End of Midterm Exam Content – Start of Final Exam Content

- Weeks 12 & 13: p. 93 -114. Unit 5: Past times**
- Vocabulary: Understanding meaning from context  
Matching words and definitions  
Applying learned vocabulary in full sentences
- Reading: Interpreting maps and charts  
Predicting content from clues  
Identifying main ideas  
Identifying supporting ideas  
Identifying meaning from context
- Writing: 3 paragraph essay about Geotourism



- Writing well developed body paragraphs  
Cause and effect paragraphs
- Grammar: Mixed conditionals
- Weeks 14 & 15: p. 115 – 138. Unit 6: Totally emotional**
- Vocabulary: Understanding meaning from context.  
Matching words and definitions  
Applying learned vocabulary in full sentences.
- Reading: Responding to text and photos.  
Using visual clues to make predictions  
Identifying main and supporting ideas  
Understanding meaning form context  
Identifying events to complete a timeline
- Writing: Explanatory essay about literature  
Concluding paragraphs
- Grammar: Similes, metaphors, and figurative language
- Weeks 16 & 17:.p. 138- 162. Unit 7: Telling Stories**
- Vocabulary: Understanding meaning from context  
Matching words and definitions  
Applying learned vocabulary in full sentences
- Reading: Responding to text and photos  
Using visual clues to make predictions  
Identifying main and supporting ideas  
Understanding meaning form context  
Interpreting a writer’s tone and meaning
- Writing: Using an outline to plan an essay.  
Write a persuasive essay
- Grammar: Using taught grammar well in full essays
- Week 18: Project. Thailand’s Best Innovators and Inventors. (Handouts in class)**  
Research, write and present a report on the best innovators and inventors that Thailand has produced. Students will use previously taught grammar, vocabulary and reading/ writing skills to produce this project.
- Week 19 & 20: Revision and Final Exams.**
- Content: Making predications on reading.  
Writing a persuasive essay on a given topic  
Reading comprehension and inference  
Taught vocabulary  
Mixed conditionals, similes, metaphors, and figurative language

### Resources

- |           |   |
|-----------|---|
| Required  | <ul style="list-style-type: none"><li>• At least 3 notebooks.</li><li>• Dictionary (English to English, not a translating one)</li><li>• Extra lines A4 paper for written assignments.</li><li>• Access to a computer and internet.</li></ul> |
| Suggested | <ul style="list-style-type: none"><li>• Many different colored pens/markers/highlighters</li></ul>  |

### Academic Integrity Policy

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academic dishonestly lower the quality of the education and will not be tolerated. Students involved in any form of academic dishonesty, including any student supplying or allowing the copying to take place, will receive a zero.

Plagiarism is the act of taking someone else's work or ideas and passing them off as one's own work or ideas. Examples of plagiarism include the failure to give appropriate acknowledgement when repeating another's idea, phrase, sentence or paragraph, or failure to give appropriate acknowledgement when paraphrasing any of those.

### **Behavioral Expectations**

For the sake of all the members of the class, students are expected to respect themselves, their classmates, the teacher, and the facilities.

Students must accept responsibility for themselves and their actions. Students are expected to be ready at the start of every class (notebooks, textbook, writing utensils, etc.) and to actively participate throughout the lesson until class is dismissed.

Behavior is monitored every day as per the class rules that are set out at the beginning of the academic year (see the front of your note books). At the end of the semester the average is taken and used for the student's behavior score (20%). Students *earn* the scores they receive.

Additionally, all Thai students are expected to embrace the following *desired characteristics*:

- Love for the country and the King, faith in religion
- Possess discipline
- Be self-sufficient
- Proud to be Thai
- Be an A.C. gentleman
- Eager to learn
- Dedicated to work
- Have a sense of public consciousness
- Be honest and upright

### **Attendance & Tardiness**

Attendance will be taken at the start of every class. Students are expected to be in class on-time, every time. Unexcused absences or tardiness will not be tolerated. In the case of planned absences, please notify the teacher in as far in advance as possible. Students are expected to catch up on all missed work outside of class time.

### **Homework & Classwork**

Homework and classwork will be assigned often and must be submitted on or before the due date for a score of 20 points. If the work is not done for the start of class, a maximum score of 15 will be possible. After more than one day has lapsed, a maximum score of 10 will be available. Late assignments can be submitted for a maximum of 50% (10 points) up until the last week of the term. All late or missed assignments that are not turned in *before* the last week of the term will receive a zero.



## Grading

This course follows to the Assumption College grading scale:

$Final\ Score \geq 80\%$	4.0
$75\% \leq Final\ Score < 80\%$	3.5
$70\% \leq Final\ Score < 75\%$	3.0
$65\% \leq Final\ Score < 70\%$	2.5
$60\% \leq Final\ Score < 65\%$	2.0
$55\% \leq Final\ Score < 60\%$	1.5
$50\% \leq Final\ Score < 55\%$	1.0
$Final\ Score < 50\%$	0.0

## Evaluation and Assessment

The final semester grade for this course out of 100% is broken down as follows:

Projects	20%
Written Work	10%
Notebooks	10%
Participation in class	10%
Behaviour	10% (Programme Mandated)
Midterm Exam	20% (Programme Mandated)
Final Exam	20% (Programme Mandated)

## Recommendations for Success

English can be a difficult course for many students. All students are encouraged to try the following:

1. Read, read, read and read. The best way to learn English is to read literature. It helps with nearly every aspect of English. The best students are always the ones who *enjoy* reading. Find a book you like and keep at it. A little every day is a good way to start.
2. Watching American movies or TV shows with the English subtitles is a good way to improve your speaking and listening skills; it also helps with vocabulary too. When you come across a new word, just pause the movie and write it down in your vocabulary book.
3. Search online (in English) if you don't understand a topic discussed in class to get a better understanding of the topic.
4. Do **not** copy your classmate's work; struggle through and do the work on your own. This is how you learn.
5. Come see the teacher outside of class time for assistance.
6. Study the notes and vocabulary at least a few minutes every day, such as in homeroom or during any free time you might have in other classes.
7. If you do not understand then ask your friends, communication is vital for success in English, communicate with your classmates in English, you'll be surprised how quickly your English improves just by doing this.





## **Student Syllabus for: EP4 Reading and Writing EN30201**

**Teacher:** Mr. Jonathan Steven Phillips

**Contact:** [epac.jonathanphillips@gmail.com](mailto:epac.jonathanphillips@gmail.com)

### **COURSE DESCRIPTION:**

Welcome to Semester 1 of EP4 Supplemental English (Reading & Writing). This course is designed to further your ability with analyzing reading, critical thinking, as well as strengthen your formal writing ability. We focus on academic skills, writing, time management and interpersonal communication skills. This course is reading, and writing intensive. In-class reading and writing assignments, research essays, large amounts of literary and academic vocabulary, participation, homework, quizzes and exams make up a majority of your grade. By the end of the year, you should be well prepared to write and analyze on the majority of topics in year 5.

The course is at an intermediate level and will move quickly. If you miss a class, it is your responsibility to find out what you have missed, either from your classmates or by seeing me on your own time, not during class time.

### **COURSE OBJECTIVES:**

The main objectives of this course are:

- to strengthen the students' writing ability in formal, informal, and technical writing, according to International English language exam expectations
- to broaden and expand the students' proficiency and knowledge in exam level English;
- to provide material for the students to revise, consolidate and extend their command of English grammar and vocabulary;
- to develop the students' reading skills to enable them to skim the text for main ideas, to scan the text for specific information, and to deduce meanings from the context, to identify the views/opinions of the author, to distinguish main ideas from supporting ones, to recognize connections and relationships between facts in a text and to label diagrams/flowcharts using precise information.
- to develop the students' writing skills to enable them to respond to input applying information to a specified task, to elicit, to select, to summarize information in clear, organized essays, to give a well-organised overview of relevant information in a graph, chart, table or diagram and to present a clear, relevant, well-organised argument, giving evidence or examples to support ideas and use language accurately.

### **COURSE OUTLINE:**

IELTS: the high-stakes English test for **study**, **migration** or **work**

- Reading: The reading component consists of 40 questions, designed to test a wide range of reading skills. These include reading for gist, reading for main ideas, reading for detail, skimming, understanding logical argument and recognizing writers' opinions, attitudes and purpose.
- Writing: You will be presented with a graph, table, chart or diagram and asked to describe, summarise or explain the information in your own words.



You may be asked to describe and explain data, describe the stages of a process, how something works or describe an object or event.

- Vocabulary: Art, business & money, communication & personality, crime & punishment, economics, education, environment, family & children.

End of Midterm Exam Content – Start of Final Exam Content

IELTS: the high-stakes English test for **study**, **migration** or **work**

- Reading: this includes three long texts which range from the descriptive and factual to the discursive and analytical. These are taken from books, journals, magazines and newspapers. They have been selected for a non-specialist audience but are appropriate for people entering university courses or seeking professional registration.
- Writing: you will be asked to write an essay in response to a point of view, argument or problem. Responses to both tasks must be in a formal style.
- Vocabulary: Food, health, language, technology, transport, travel, society, sport, work.

### **You need to have the following in class each day:**

Blue or Black ink pens and pencils.

Plastic folder to hold materials/textbooks

(2) White notebooks

(1) Highlighter

Paper Dictionary

Paper/Electronic Thesaurus

### **COURSE POLICIES/BEHAVIOR:**

Course policies are the rules and guidelines our class follows. They can be summed up in one word: respect. Respect the teacher; respect your fellow classmates and their desire to learn. Exhibit respect and behave and act as young men.

### **CHEATING, COPYING and PLAGIARISM:**

There is to be no plagiarism, no copying, and no cheating of any kind. These and any other acts of academic dishonesty lower the quality of the education and **will not be tolerated**. Students involved in any form of academic dishonesty, including any student supplying or allowing the copying to take place, **will receive a zero**.

Plagiarism is the act of taking someone else's work or ideas and passing them off as one's own work or ideas. Examples of plagiarism include the failure to give appropriate acknowledgement when repeating another's idea, phrase, sentence or paragraph, or failure to give appropriate acknowledgement when paraphrasing any of those.

### **HOMEWORK:**

All homework assignments must be completed and turned in during class the day that it is due. Late work is accepted, but if work is turned in after class or the next day, points will be deducted.



**GRADE DETERMINATION:**

Your grades will be determined by your homework, class work, quizzes/tests and participation. You will be graded on speaking, listening, reading, writing and behaviour. Do your best in everything that we do, and do your best to keep up and not miss anything. Zeros will hurt your grade much more than a low score. **Active participation and preparedness is expected at all times!**

This course follows to the Assumption College grading scale:

<i>Final Score</i> ≥ 80%	4.0
75% ≤ <i>Final Score</i> < 80%	3.5
70% ≤ <i>Final Score</i> < 75%	3.0
65% ≤ <i>Final Score</i> < 70%	2.5
60% ≤ <i>Final Score</i> < 65%	2.0
55% ≤ <i>Final Score</i> < 60%	1.5
50% ≤ <i>Final Score</i> < 55%	1.0
<i>Final Score</i> < 50%	0.0

**Evaluation and Assessment**

The final semester grade for this course out of 100% is broken down as follows:

Independent Reading	10%
Assignments (Reading & Writing)	20%
Essays	20%
Behavior	10% (program mandated)
Midterm (Summative) Exam	20% (program mandated)
Final Exam	20% (program mandated)

**With your dedication, discipline, respect, and hard work we will have an excellent semester.**

Week	Course Content	Grammar / Novel Pages
1	<p><b>Novel: Sherlock Holmes Short Stories</b> <b>Quizlet Set: Writing Techniques</b></p> <p><b>Reading: Rock Art: A Journey into Africa’s Past</b></p> <ul style="list-style-type: none"> <li>• Matching headings</li> <li>• True/False/Not Given</li> <li>• Short-answer questions</li> </ul> <p><b>Writing</b></p> <ul style="list-style-type: none"> <li>• The structure of a paragraph</li> <li>• Topic Sentences</li> </ul>	



2	<b>Writing: Line Graph</b> <ul style="list-style-type: none"> <li>• IELTS Writing Task 1</li> <li>• Generating Ideas for Writing: Brainstorming</li> <li>• Choosing Supporting Points</li> </ul>	Past simple – IELTS Introduction page 14 Grammar Page 10-11-292-293
3	<b>Reading: Ancient Calendars</b> <ul style="list-style-type: none"> <li>• Sentence completion</li> <li>• True/False/Not Given</li> <li>• Classifying</li> </ul> <b>Writing</b> <ul style="list-style-type: none"> <li>• Supporting ideas with details</li> <li>• Organizing supporting sentences</li> </ul>	Present perfect – IELTS Introduction page 21 Grammar page 14 & 35
4	<b>Writing</b> <ul style="list-style-type: none"> <li>• Writing a concluding sentence</li> <li>• Choosing a title</li> </ul>	
5	<b>Reading: Beaver, Master Mound Builder</b> <ul style="list-style-type: none"> <li>• Matching information</li> <li>• True/False/Not Given</li> <li>• Short answer questions</li> </ul> <b>Writing</b> <ul style="list-style-type: none"> <li>• Understanding coherence</li> <li>• Using conjunctions</li> </ul>	Adjectives & adverbs – IELTS Introduction page 36 Grammar page 200-204
6	<b>Writing</b> <ul style="list-style-type: none"> <li>• Coordinating conjunctions</li> <li>• Subordinating conjunctions</li> </ul> <b>Writing</b> <ul style="list-style-type: none"> <li>• Using transitional expressions</li> </ul> Avoiding run-on sentences and sentence fragments	
7	<b>Writing</b> <ul style="list-style-type: none"> <li>• IELTS Writing Task 2: Computers in schools</li> <li>• Discuss ideas and give your opinion</li> </ul>	Conjunctions: IELTS Foundation Page 27 Grammar Page 178-179
8	<b>Writing</b> <ul style="list-style-type: none"> <li>• IELTS Writing Task 2: School Trips</li> <li>• Improving paragraphs</li> </ul>	
9	<b>Revision</b>	
10	<b>Mid-term exam</b>	
11	<b>Reading: The Andes Mountains</b> <ul style="list-style-type: none"> <li>• Summary completion</li> </ul>	



	<ul style="list-style-type: none"><li>• Choosing items from a list</li><li>• Completing a flowchart</li></ul>	
12	<b>Writing</b> <ul style="list-style-type: none"><li>• IELTS Writing task 1</li><li>• Describing Changes in Maps</li></ul>	It, there, this Grammar page 168
13	<b>Writing</b> <ul style="list-style-type: none"><li>• Editing a paragraph</li><li>• Writing a thesis statement</li></ul>	
14	<b>Reading: From Flax to Linen</b> <ul style="list-style-type: none"><li>• Matching headings</li><li>• Matching Multiple choice</li></ul>	
15	<b>Writing: Orange Juice</b> <ul style="list-style-type: none"><li>• IELTS Writing task 1: Describing a process</li><li>• Process language: nouns and verbs</li><li>• Passive statements</li></ul>	
16	<b>Reading: Sherlock Holmes</b> <ul style="list-style-type: none"><li>• Locating information</li><li>• Inferring plot events</li></ul>	
17	<b>Writing: The Water Cycle</b> <ul style="list-style-type: none"><li>• IELTS Writing task 1: Describing a process</li><li>• Adverbs and conjunctions</li><li>• Sequencing</li></ul>	
18	<b>Writing: Olive Oil</b> <ul style="list-style-type: none"><li>• IELTS Writing task 1: Describing a process</li><li>• Exam Practice Question</li></ul>	
19	<b>Revision</b> <ul style="list-style-type: none"><li>• Guided quiz</li><li>• Self-study + Q &amp; A</li></ul>	
20	<b>Final Exam</b>	



**EN30241 M4 English for Life Skills**

**Teacher** Mr. Jonas Godson

**Contact** EP Teacher Room, 2<sup>nd</sup> Floor Colombet Building.  
jonasinthailand@gmail.com

**Credits** 1.5

**Course Description**

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The Foundation English course focuses on laying solid groundwork on basic grammar, speech, reading and vocabulary skills. Using an integrated learning methodology, this course aims to give students the more advanced skills needed to converse in English.

For reading, the focus will be on predicting, scanning, skimming, inference and sequencing. Writing will be more focused on essays and complex paragraphs. Speaking and listening will be integrated into activities, but phonetics and correct pronunciation will be highlighted. There will be an opportunity for students to demonstrate and apply their knowledge in group and individual projects.

This course will follow the content of the course book, with a few extra adaptations and activities where necessary.

**Textbook**

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Cambridge Prepare B2 – Listening & Speaking focus  
Level 7

**Course Outline & Objectives**

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**Weeks 1 & 2: p. 1-22. Unit 1: Creative Minds**

- Vocabulary:** Understanding meaning from context.  
Matching words and definitions  
Applying learned vocabulary in full sentences.
- Reading:** Skimming to make predictions.  
Scanning for specific information  
Sequencing information  
Identifying main ideas and supporting information from text.
- Writing:** Synthesizing information in complete paragraphs.  
Write compare and contrast paragraphs.  
Writing an opinion paragraph
- Grammar:** Modal verbs, continuous tenses, prefixes

**Weeks 3 & 4: p. 23-46. Unit 2: Addicted to Fashion**

- Vocabulary:** Understanding meaning from context  
Matching words and definitions  
Applying learned vocabulary in full sentences
- Reading:** Skimming to make predictions  
Scanning for specific information  
Sequencing information  
Identifying main ideas and supporting information from text



Writing: Synthesizing information in complete paragraphs  
Write compare and contrast paragraphs  
Writing an opinion paragraph  
Grammar: First and second conditionals, pronoun references, modifiers, adverbs of manor

**Weeks 5 & 6: p. 47-68. Unit 3: All in the mind**

Vocabulary: Understanding meaning from context.  
Matching words and definitions  
Applying learned vocabulary in full sentences  
Reading: Interpreting maps  
Skimming to make predictions  
Identifying main ideas  
Identifying supporting ideas  
Identifying meaning from context  
Writing: Thesis statements  
Writing descriptive paragraphs  
Grammar: Past Simple vs. past perfect, used to

**Weeks 7 & 8: p. 69-92. Unit 4: Take it easy**

Vocabulary: Understanding meaning from context  
Matching words and definitions  
Applying learned vocabulary in full sentences  
Reading: Interpreting maps  
Making predictions  
Scanning for key details  
Interpreting information from a multimodal context  
Understanding a process  
Writing: Introduction paragraphs  
Opinion paragraphs  
Grammar: Using parallel structures, conjunctions, sequence words

**Week 9: Project. Tourism in Thailand (Handouts in class)**

Students will use previously taught skills and vocabulary to produce a written guide to Thailand for tourists. They will then present this to the class and answer questions.

**Week 10&11: Review and Midterm exams.**

Content: Modal verbs, continuous tenses, conditionals, past simple vs. past perfect  
Sequencing and synthesizing information.  
Thesis statements  
Opinion paragraph (relating to texts)  
Reading and understanding non-text information (i.e., maps)  
Taught vocabulary

End of Midterm Exam Content – Start of Final Exam Content
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**Weeks 12 & 13: p. 93 -114. Unit 5: Past times**

Vocabulary: Understanding meaning from context



- Matching words and definitions
- Applying learned vocabulary in full sentences
- Reading: Interpreting maps and charts
- Predicting content from clues
- Identifying main ideas
- Identifying supporting ideas
- Identifying meaning from context
- Writing: 3 paragraph essay about Geotourism
- Writing well developed body paragraphs
- Cause and effect paragraphs
- Grammar: Mixed conditionals

**Weeks 14 & 15: p. 115 – 138. Unit 6: Totally emotional**

- Vocabulary: Understanding meaning from context.
- Matching words and definitions
- Applying learned vocabulary in full sentences.
- Reading: Responding to text and photos.
- Using visual clues to make predictions
- Identifying main and supporting ideas
- Understanding meaning form context
- Identifying events to complete a timeline
- Writing: Explanatory essay about literature
- Concluding paragraphs
- Grammar: Similes, metaphors, and figurative language

**Weeks 16 & 17:p. 138- 162. Unit 7: Telling Stories**

- Vocabulary: Understanding meaning from context
- Matching words and definitions
- Applying learned vocabulary in full sentences
- Reading: Responding to text and photos
- Using visual clues to make predictions
- Identifying main and supporting ideas
- Understanding meaning form context
- Interpreting a writer’s tone and meaning
- Writing: Using an outline to plan an essay.
- Write a persuasive essay
- Grammar: Using taught grammar well in full essays

**Week 18: Project. Thailand’s Best Innovators and Inventors. (Handouts in class)**

Research, write and present a report on the best innovators and inventors that Thailand has produced. Students will use previously taught grammar, vocabulary and reading/ writing skills to produce this project.

**Week 19 & 20: Revision and Final Exams.**

- Content: Making predications on reading.
- Writing a persuasive essay on a given topic
- Reading comprehension and inference
- Taught vocabulary
- Mixed conditionals, similes, metaphors, and figurative language





## **Resources**

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- |           |   |
|-----------|---|
| Required  | <ul style="list-style-type: none"><li>• At least 3 notebooks.</li><li>• Dictionary (English to English, not a translating one)</li><li>• Extra lines A4 paper for written assignments.</li><li>• Access to a computer and internet.</li></ul> |
| Suggested | <ul style="list-style-type: none"><li>• Many different colored pens/markers/highlighters</li></ul>  |

## **Academic Integrity Policy**

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Students are expected to adhere to the Assumption College student handbook. There is to be no plagiarism, no copying, and no cheating of any kind. These and any other acts of academic dishonesty lower the quality of the education and will not be tolerated. Students involved in any form of academic dishonesty, including any student supplying or allowing the copying to take place, will receive a zero.

Plagiarism is the act of taking someone else's work or ideas and passing them off as one's own work or ideas. Examples of plagiarism include the failure to give appropriate acknowledgement when repeating another's idea, phrase, sentence or paragraph, or failure to give appropriate acknowledgement when paraphrasing any of those.

## **Behavioral Expectations**

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For the sake of all the members of the class, students are expected to respect themselves, their classmates, the teacher, and the facilities.

Students must accept responsibility for themselves and their actions. Students are expected to be ready at the start of every class (notebooks, textbook, writing utensils, etc.) and to actively participate throughout the lesson until class is dismissed.

Behavior is monitored every day as per the class rules that are set out at the beginning of the academic year (see the front of your note books). At the end of the semester the average is taken and used for the student's behavior score (20%). Students *earn* the scores they receive.

Additionally, all Thai students are expected to embrace the following *desired characteristics*:

- Love for the country and the King, faith in religion
- Possess discipline
- Be self-sufficient
- Proud to be Thai
- Be an A.C. gentleman
- Eager to learn
- Dedicated to work
- Have a sense of public consciousness
- Be honest and upright

## **Attendance & Tardiness**

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Attendance will be taken at the start of every class. Students are expected to be in class on-time, every time. Unexcused absences or tardiness will not be tolerated. In the case of planned absences, please notify the teacher in as far in advance as possible. Students are expected to catch up on all missed work outside of class time.

## **Homework & Classwork**

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Homework and classwork will be assigned often and must be submitted on or before the due date for a score of 20 points. If the work is not done for the start of class, a maximum score of 15 will be possible. After more than one day has lapsed, a maximum score of 10 will be



available. Late assignments can be submitted for a maximum of 50% (10 points) up until the last week of the term. All late or missed assignments that are not turned in *before* the last week of the term will receive a zero.

### Grading

This course follows to the Assumption College grading scale:

$Final\ Score \geq 80\%$	4.0
$75\% \leq Final\ Score < 80\%$	3.5
$70\% \leq Final\ Score < 75\%$	3.0
$65\% \leq Final\ Score < 70\%$	2.5
$60\% \leq Final\ Score < 65\%$	2.0
$55\% \leq Final\ Score < 60\%$	1.5
$50\% \leq Final\ Score < 55\%$	1.0
$Final\ Score < 50\%$	0.0

### Evaluation and Assessment

The final semester grade for this course out of 100% is broken down as follows:

Projects	20%
Written Work	10%
Notebooks	10%
Participation in class	10%
Behaviour	10% (Programme Mandated)
Midterm Exam	20% (Programme Mandated)
Final Exam	20% (Programme Mandated)

### Recommendations for Success

English can be a difficult course for many students. All students are encouraged to try the following:

1. Read, read, read and read. The best way to learn English is to read literature. It helps with nearly every aspect of English. The best students are always the ones who *enjoy* reading. Find a book you like and keep at it. A little every day is a good way to start.
2. Watching American movies or TV shows with the English subtitles is a good way to improve your speaking and listening skills; it also helps with vocabulary too. When you come across a new word, just pause the movie and write it down in your vocabulary book.
3. Search online (in English) if you don't understand a topic discussed in class to get a better understanding of the topic.
4. Do **not** copy your classmate's work; struggle through and do the work on your own. This is how you learn.
5. Come see the teacher outside of class time for assistance.
6. Study the notes and vocabulary at least a few minutes every day, such as in homeroom or during any free time you might have in other classes.
7. If you don't understand then ask your friends, communication is vital for success in English, communicate with your classmates in English, you'll be surprised how quickly your English improves just by doing this.



## **ST30101 Foundation Physics**

**Teacher** Mr. Edward Aldworth

**Contact** EP Teacher Room, 2<sup>nd</sup> Floor Colombet Bldg.

**Credits** 1.5

### **Course Description**

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Study the definitions of force, work, and power, equations of relationship between force and work, equations of relationship between work and kinetic energy, potential energy, and laws of conservation of energy, impulse, impulsive force, change in momentum, one- dimensional collision, laws of conservation of momentum, two-dimensional collisions, explosion of objects, circular motion, centripetal force, simple harmonic motion, rotational motion, angular momentum, laws of conservation of angular momentum, laws of conservation of rotational kinetic energy, rotational motion relating to quantities of angular velocity, angular acceleration, torque, and linear motion equations.

### **Textbook**

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*Physics*, for Cambridge IGCSE

ISBN: 978-1-108-88807-3

### **Course Outline & Objectives**

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ST 2.2 S.5/1 Unit 1: Describing motion

1.1: Understanding Vectors and Scalars [S.5/1]

1.2: Understanding Speed

1.3: Interpreting Distance- time graphs [S.5/1]

1.4: Acceleration

1.5: Calculations involving speed and acceleration

ST 2.2 S.5/2 Unit 2: Forces and Motion

2.1: Balanced and Unbalanced forces

2.2: Mass, Weight and Gravity [S.5/6]

2.3: Inertia

2.4: Force, Mass and Acceleration

2.5: Newton III [SC 2.2 S.5/4]

End of Midterm Exam Content – Start of Final Exam Content
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ST 2.2 S.5/3 Unit 3: Momentum and Collision

3.1: Impulse Force [S. 5/3]

3.2: Elastic Collision

3.3: Inelastic Collision

3.4: Collisions in 2D and Explosions



## ST 2.2 S.5/7 unit 4: Current and Magnetism

4.1: Electric Current

4.2: Magnetic Fields and Magnetic Forces [S.5/8]

4.3: EMF [S.5/9]

4.4: Understanding Strong Forces and Weak Forces [S.5/10]

### **Resources**

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- Required
- Notebook
  - Scientific calculator (not a phone-based application)
  - Ruler

### **Academic Integrity Policy**

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Students are expected to adhere to the Assumption College student handbook. There is to be no plagiarism, no copying, and no cheating of any kind. These and any other acts of academic dishonesty lower the quality of the education and will not be tolerated. Students involved in any form of academic dishonesty, including any student supplying or allowing the copying to take place, will receive a zero.

Plagiarism is the act of taking someone else's work or ideas and passing them off as one's own work or ideas. Examples of plagiarism include the failure to give appropriate acknowledgement when repeating another's idea, phrase, sentence or paragraph, or failure to give appropriate acknowledgement when paraphrasing any of those.

### **Behavioral Expectations**

---

For the sake of all the members of the class, students are expected to respect themselves, their classmates, the teacher, and the facilities. Students must accept responsibility for themselves and their actions. Students are expected to be ready at the start of every class (Notebook, textbook, scientific calculator, writing utensils, etc.) and to actively participate throughout the lesson until class is dismissed.

A behavior score (out of 5 points) is taken every day. At the end of the semester the average is taken and used for the student's behavior score (10%).

Additionally, all Thai students are expected to embrace the following *desired characteristics*:

- Possess discipline
- Eager to learn
- Be an AC gentleman
- Dedicated to work

### **Attendance & Tardiness**

---

Attendance will be taken at the start of every class. Students are expected to be in class on-time, every time. Unexcused absences or tardiness will not be tolerated. In the case of planned absences, please notify the teacher as far in advance as possible. Students are expected to catch up on all missed work outside of class time.

### **Assignments & Classwork**

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Assignments and classwork will be assigned often and must be submitted on or before the due date. Late assignments can be submitted for a maximum of 50% up until the last week of



the term. All late or missed assignments that are not turned in *before* the last week of the term will receive a zero.

### **Grading**

Foundation Earth Stars & Universe follows to the Assumption College grading scale:

$Final\ Score \geq 80\%$	4.0
$75\% \leq Final\ Score < 80\%$	3.5
$70\% \leq Final\ Score < 75\%$	3.0
$65\% \leq Final\ Score < 70\%$	2.5
$60\% \leq Final\ Score < 65\%$	2.0
$55\% \leq Final\ Score < 60\%$	1.5
$50\% \leq Final\ Score < 55\%$	1.0
$Final\ Score < 50\%$	0.0

### **Evaluation and Assessment**

The final semester grade for this course out of 100% is broken down as follows:

Assignments/Notebook/Lab	25%
Quiz/Test	15%
STEM	10%
Behavior	10% (program mandated)
Midterm (Summative) Exam	20% (program mandated)
Final Exam	20% (program mandated)

### **Recommendations for Success**

All students are encouraged to try the following:

1. Read, read, read the textbook. Oftentimes, reading the text once is not enough even for native English speakers. You may need to read the material multiple times to understand. By reading along at home with the lessons taught at school (typically only a few pages per night), students will be able to responsibly manage the material and gain the most from the course.
2. Search online, in either Thai or English, if you don't understand a topic discussed in class or simply to get a better understanding of the topic.
3. Do **not** copy your classmates' work; struggle through and do the work on your own! This is how you learn!
4. Come see the teacher outside of class time for assistance.
5. Do the review questions at the end of the chapter and see the teacher for the answers.
6. Study the notes and vocabulary at least a few minutes every day, such as in homeroom or during any free time you might have in other classes.



## **ST30102 Foundation Chemistry**

**Teacher** Mr. Michael Dew

**Contact** EP Teacher Room, 2<sup>nd</sup> Floor Colombet Bldg.

**Class Time** EP-M 4/1: Monday Period 1, Wednesday Period 2

**Credits** 1.5 (2 lessons per week)

### **Course Description**

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Foundation Chemistry is the first installment within the comprehensive Chemistry program offered here at Assumption College English Program. This course serves as the starting point in a student's progression within the subject as the course material will gradually advance into more complex and detailed areas of Chemistry. Within this semester, Atomic Structure, Bonding, Oxidation and Rules of Periodicity of Elements will be explained.

Demonstrations, computer-simulated activities and laboratory experiments will allow students to learn basic laboratory techniques, lab safety and get a hands-on experience of the theories and concepts learned in the lectures. As with many courses within the English Program, critical thinking skills are emphasized over those of rote learning and BMAT-style questions are a part of the evaluation process. The course will follow the content of BMAT Past Paper Worked Solutions (2003-2017) 2018 by Black Stone Tutors. The course is prerequisite to Universal Chemistry 1.

### **Textbook**

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- *Cambridge IGCSE & O Level Chemistry*  
By Rose Marie Gallagher  
and Paul Ingram

Supplementary:

- N/A

### **Course Outline & Objectives**

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#### **States of Matter (Chapter 1)**

- Particles
- Solids, Liquids, Gases
- The Particles in Solids, Liquids, Gases

#### **Atoms and Elements (Chapter 2)**

- Meet the Elements
- How electrons are arranged
- Isotopes and model of the atom

#### **Atoms Combining (Chapter 3)**

- Compounds, Mixtures, and Chemical Changes
- Ionic Bond
- Covalent Bond
- Giant Covalent Structures
- Metallic Bonds



**Reacting Masses, and Chemical Equations (Chapter 4)**

- Names and Formulas of Compounds
- Equations for Chemical Reactions
- Masses of atoms, molecules, and ions
- Calculations about mass and %

**Using Moles (Chapter 5)**

- The Mole
- Calculations from Equations
- Reactions involving gases
- The concentration of a solution
- Finding the Empirical Formula

**Redox Reactions (Chapter 6)**

- Oxidation and Reduction
- Redox and Electron Transfer
- Redox and oxidation numbers
- Oxidizing and Reducing agents

**Electricity and Chemical Change (Chapter 7)**

- Conductors and Non-conductors
- The principles of electrolysis
- Electrode Reactions

**Reversible Reactions and Equilibrium (Chapter 10)**

- Reversible reactions
- Shifting the Equilibrium
- The Haber Process
- The Contact Process

**Acids, Bases, and Salts (Chapter 11)**

- Acids and Bases
- Closer Look at Acids and Alkalis
- Reaction of Acids and Bases
- Neutralization and Oxides
- Making Salts

**Resources**

Required

- Assumption Notebook (2)
- Binder/ folder
- Scientific calculator (not a phone-based application)
- Ruler

Suggested

- Many different colored pens/markers/highlighters
- Electronic Thai-English translator (not a phone-based application)
- A Matayom-level chemistry practice book in Thai



### **Academic Integrity Policy**

Students are expected to adhere to the Assumption College student handbook. There is to be no plagiarism, no copying, and no cheating of any kind. These and any other acts of academic dishonesty lower the quality of the education and will not be tolerated. Students involved in any form of academic dishonesty, including any student supplying or allowing the copying to take place, will receive a zero.

Plagiarism is the act of taking someone else's work or ideas and passing them off as one's own work or ideas. Examples of plagiarism include the failure to give appropriate acknowledgement when repeating another's idea, phrase, sentence or paragraph, or failure to give appropriate acknowledgement when paraphrasing any of those.

### **Behavioral Expectations**

For the sake of all the members of the class, students are expected to respect themselves, their classmates, the teacher, and the facilities. Students must accept responsibility for themselves and their actions. Students are expected to be ready at the start of every class (Notebook, textbook, scientific calculator, writing utensils, etc.) and to actively participate throughout the lesson until class is dismissed.

A behavior score (out of 5 points) is taken every day. At the end of the semester the average is taken and used for the student's behavior score (10%).

Additionally, all Thai students are expected to embrace the following *desired characteristics*:

- Possess discipline                      - Eager to learn
- Be an AC gentleman                 - Dedicated to work

### **Attendance & Tardiness**

Attendance will be taken at the start of every class. Students are expected to be in class on-time, every time. Unexcused absences or tardiness will not be tolerated. In the case of planned absences, please notify the teacher as far in advance as possible. Students are expected to catch up on all missed work outside of class time.

### **Homework & Classwork**

Homework and classwork will be assigned often and must be submitted on or before the due date. Late assignments can be submitted for a maximum of 50% up until the last week of the term. All late or missed assignments that are not turned in *before* the last week of the term will receive a zero.





## Grading

Foundation Chemistry follows to the Assumption College grading scale:

$Final\ Score \geq 80\%$	4.0
$75\% \leq Final\ Score < 80\%$	3.5
$70\% \leq Final\ Score < 75\%$	3.0
$65\% \leq Final\ Score < 70\%$	2.5
$60\% \leq Final\ Score < 65\%$	2.0
$55\% \leq Final\ Score < 60\%$	1.5
$50\% \leq Final\ Score < 55\%$	1.0
$Final\ Score < 50\%$	0.0

## Evaluation and Assessment

The final semester grade for this course out of 100% is broken down as follows:

Homework/Classwork/Labs	30%
Class Test	20%
Behavior	10% (program mandated)
Midterm Exam	20% (program mandated)
Final Exam	20% (program mandated)

## Recommendations for Success

Chemistry can be a difficult course for many students. All students are encouraged to try the following:

1. Read, read, read the Chemistry textbook. Oftentimes, reading the text once is not enough even for native English speakers. You may need to read the material multiple times to understand. By reading along at home with the lessons taught at school (typically only a few pages per night), students will be able to responsibly manage the material and gain the most from the course.
2. Search online, in either Thai or English, if you don't understand a topic discussed in class or simply to get a better understanding of the topic.
3. Get a Thai language introductory chemistry book.
4. Do **not** copy your classmate's work; struggle through and do the work on your own! This is how you learn!
5. Come see the teacher outside of class time for assistance.
6. Do more than just the bare minimum; there are plenty of problems in the textbook. We only have time for so many of them. Do the review questions at the end of the chapter and see the teacher for the answers.
7. Study the notes and vocabulary at least a few minutes every day, such as in the homeroom or during any free time you might have in other classes.



## **ST30103 Foundation Biology**

**Teacher** Mr. Zak Callaway

**Contact** EP Teacher Room, 2<sup>nd</sup> Floor, Colombet Bldg.

**Class Time** EP-M 4/1 Tues, Thurs, Fri

**Credits** 1.5 (1 Class/week)

### **Course Description**

This course looks at the basics of biology, including water, macromolecules, nutrition, and digestion. This course will be beneficial for those who need a broad knowledge of biology.

### **Textbook**

- *Cambridge IGCSE and O Level Complete Biology, 4th edition.* Oxford University Press. 2021.

### **Course Outline & Objectives**

#### **Unit 1: Characteristics and classification of living organisms**

- The variety of life
- The organization of living organisms

#### **Unit 2: Water, Biochemistry, and Cells**

- Water structure
- Water Properties: Cohesion, Solvent, Chemical Reactions
- Organic Chemistry
- Macromolecules

#### **Unit 3: Biological Molecules**

- Dehydration and Hydrolysis reactions
- Monomers and Polymers
- Carbohydrates
- Lipids
- Proteins
- Nucleic Acids

#### **Unit 4: Nutrition**

- Nutrition - Food and the Ideal Diet
- Macromolecules
- Water, Vitamins, Minerals
- Malnutrition, Undernutrition, Overnutrition

#### **Unit 5: Digestion**

- Parts of the Digestive System
- Ingestion
- Digestion
- Absorption
- Assimilation
- Preventing Disease: Safe Food



## **Resources**

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|-----------|--|
| Required  | <ul style="list-style-type: none"><li>• Assumption Notebook (2)</li><li>• Binder/ folder</li></ul> |
| Suggested | <ul style="list-style-type: none"><li>• tablet</li></ul>   |

## **Academic Integrity Policy**

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Students are expected to adhere to the Assumption College student handbook. There is to be no plagiarism, no copying, and no cheating of any kind. These and any other acts of academic dishonesty lower the quality of the education and will not be tolerated. Students involved in any form of academic dishonesty, including any student supplying or allowing the copying to take place, will receive a zero.

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## **Behavioral Expectations**

For the sake of all the members of the class, students are expected to respect themselves, their classmates, the teacher, and the facilities. Students must accept responsibility for themselves and their actions. Students are expected to be ready at the start of every class (Notebook, textbook, scientific calculator, writing utensils, etc.) and to actively participate throughout the lesson until class is dismissed.

A behavior score (out of 5 points) is taken every day. At the end of the semester the average is taken and used for the student's behavior score (10%).

Additionally, all Thai students are expected to embrace the following *desired characteristics*:

- Possess discipline - Eager to learn
- Be an AC gentleman - Dedicated to work

## **Attendance & Tardiness**

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Attendance will be taken at the start of every class. Students are expected to be in class on-time, every time. Unexcused absences or tardiness will not be tolerated. In the case of planned absences, please notify the teacher in as far in advance as possible. Students are expected to catch up on all missed work outside of class time.

## **Homework & Classwork**

Homework and classwork will be assigned often and must be submitted on or before the due date. Late assignments can be submitted for a maximum of 50% up until the last week of the term. All late or missed assignments that are not turned in *before* the last week of the term will receive a zero.



## Grading

This class follows to the Assumption College grading scale:

$Final\ Score \geq 80\%$	4.0
$75\% \leq Final\ Score < 80\%$	3.5
$70\% \leq Final\ Score < 75\%$	3.0
$65\% \leq Final\ Score < 70\%$	2.5
$60\% \leq Final\ Score < 65\%$	2.0
$55\% \leq Final\ Score < 60\%$	1.5
$50\% \leq Final\ Score < 55\%$	1.0
$Final\ Score < 50\%$	0.0

## Evaluation and Assessment

The final semester grade for this course out of 100% is broken down as follows:

Homework/Classwork/Projects	50%
Quizzes	10%
Behavior	10% (program mandated)
Class Test	30% (program mandated)

## Recommendations for Success

Biology can be a difficult course for many students. All students are encouraged to try the following:

1. Read the materials provided. Oftentimes, reading the text once is not enough even for native English speakers. You may need to read the material multiple times to understand. By reading along at home with the lessons taught at school (typically only a few pages per night), students will be able to responsibly manage the material and gain the most from the course.
2. Search online, in either Thai or English, if you don't understand a topic discussed in class or simply to get a better understanding of the topic.
3. Get a Thai language introductory chemistry book.
4. Do **not** copy your classmate's work; struggle through and do the work on your own! This is how you learn!
5. Come see the teacher outside of class time for assistance.
6. Do more than just the bare minimum; there are plenty of problems in the textbook. We only have time for so many of them. Do the review questions at the end of the chapter and see the teacher for the answers.
7. Study the notes and vocabulary at least a few minutes every day, such as in homeroom or during any free time you might have in other classes.



## **ST30103 Foundation Biology**

**Teacher** Mr. Zak Callaway

**Contact** EP Teacher Room, 2<sup>nd</sup> Floor, Colombet Bldg.

**Class Time** EP-M 4/2(H) Mon, Thurs, Fri

**Credits** 1.5 (1 Class/week)

### **Course Description**

This course looks at the basics of biology, including biological macromolecules, nutrition and digestion, and immunity and disease. This course will be beneficial for those interested in health-related majors.

### **Textbook**

- *Cambridge IGCSE and O Level Complete Biology, 4th edition.* Oxford University Press. 2021.

### **Course Outline & Objectives**

#### **Unit 1: Biological Molecules**

- Dehydration and Hydrolysis reactions
- Monomers and Polymers
- Carbohydrates
- Lipids
- Proteins
- Nucleic Acids

#### **Unit 2: Nutrition**

- Nutrition - Food and the Ideal Diet
- Macromolecules
- Water, Vitamins, Minerals
- Malnutrition, Undernutrition, Overnutrition

#### **Unit 3: Digestion**

- Parts of the Digestive System
- Ingestion
- Digestion
- Absorption
- Assimilation
- Preventing Disease: Safe Food

#### **Unit 4: Diseases and Immunity**

- Pathogens
- Community Health
- Combating Infection
- Antibodies
- Antibiotics



## **Resources**

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|-----------|--|
| Required  | <ul style="list-style-type: none"><li>• Assumption Notebook (2)</li><li>• Binder/ folder</li></ul> |
| Suggested | <ul style="list-style-type: none"><li>• tablet</li></ul>   |

## **Academic Integrity Policy**

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Students are expected to adhere to the Assumption College student handbook. There is to be no plagiarism, no copying, and no cheating of any kind. These and any other acts of academic dishonesty lower the quality of the education and will not be tolerated. Students involved in any form of academic dishonesty, including any student supplying or allowing the copying to take place, will receive a zero.

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## **Behavioral Expectations**

For the sake of all the members of the class, students are expected to respect themselves, their classmates, the teacher, and the facilities. Students must accept responsibility for themselves and their actions. Students are expected to be ready at the start of every class (Notebook, textbook, scientific calculator, writing utensils, etc.) and to actively participate throughout the lesson until class is dismissed.

A behavior score (out of 5 points) is taken every day. At the end of the semester the average is taken and used for the student's behavior score (10%).

Additionally, all Thai students are expected to embrace the following *desired characteristics*:

- Possess discipline                      - Eager to learn
- Be an AC gentleman                      - Dedicated to work

## **Attendance & Tardiness**

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Attendance will be taken at the start of every class. Students are expected to be in class on-time, every time. Unexcused absences or tardiness will not be tolerated. In the case of planned absences, please notify the teacher in as far in advance as possible. Students are expected to catch up on all missed work outside of class time.

## **Homework & Classwork**

Homework and classwork will be assigned often and must be submitted on or before the due date. Late assignments can be submitted for a maximum of 50% up until the last week of the term. All late or missed assignments that are not turned in *before* the last week of the term will receive a zero.



## Grading

This class follows to the Assumption College grading scale:

$Final\ Score \geq 80\%$	4.0
$75\% \leq Final\ Score < 80\%$	3.5
$70\% \leq Final\ Score < 75\%$	3.0
$65\% \leq Final\ Score < 70\%$	2.5
$60\% \leq Final\ Score < 65\%$	2.0
$55\% \leq Final\ Score < 60\%$	1.5
$50\% \leq Final\ Score < 55\%$	1.0
$Final\ Score < 50\%$	0.0

## Evaluation and Assessment

The final semester grade for this course out of 100% is broken down as follows:

Homework/Classwork/Projects	50%
Quizzes	10%
Behavior	10% (program mandated)
Class Test	30% (program mandated)

## Recommendations for Success

Biology can be a difficult course for many students. All students are encouraged to try the following:

1. Read the materials provided. Oftentimes, reading the text once is not enough even for native English speakers. You may need to read the material multiple times to understand. By reading along at home with the lessons taught at school (typically only a few pages per night), students will be able to responsibly manage the material and gain the most from the course.
2. Search online, in either Thai or English, if you don't understand a topic discussed in class or simply to get a better understanding of the topic.
3. Get a Thai language introductory chemistry book.
4. Do **not** copy your classmate's work; struggle through and do the work on your own! This is how you learn!
5. Come see the teacher outside of class time for assistance.
6. Do more than just the bare minimum; there are plenty of problems in the textbook. We only have time for so many of them. Do the review questions at the end of the chapter and see the teacher for the answers.
7. Study the notes and vocabulary at least a few minutes every day, such as in homeroom or during any free time you might have in other classes.



## **ST30104 Foundation Earth, Stars and Universe**

<b>Teacher</b>	Mr. Nicholas Crook
<b>Contact</b>	EP Teacher Room, 2 <sup>nd</sup> Floor Colombet Bldg.
<b>Credits</b>	1.5
<b>Classes</b>	Monday Period 6 (M4/1) Tuesday Period 6 (M4/1) Wednesday Period 3 & 4 – H(M4/2) Thursday Period 1 – H(4/2) Thursday Period 2 – (M4/1)

### **Course Description**

This course focuses on Earth, Stars, and Astronomy. The course offers an intermediate survey of these topics. As with many courses within EP, critical thinking skills are emphasized over those of rote learning. The course will closely follow the order and content of the latest version of *The Universe*, Orient Blackswan. The course provides foundation for university level geology and astronomy.

### **Learning Contents**

Study the science basic knowledge in the field of global structure, the movement and types of the Earth plate, volcanoes, earthquake, global temperature changes, important weather symbols, the origin of universe, Galaxy, stars, evolution of star, solar system, the origin of solar system, brightness and magnitude of stars, star distance, Nebula (the origin of stars), mass of stars, the field of the Sun attendant, the Sun, space technology, transportation and Satellite orbit, space transportation system, the application on space technology

BY using scientific process and scientific skills such as observation, query, experiment, conclusion of the data, information communication, classification, data interpretation, analysis, explanation, discussion to gain knowledge, understanding, the ability in problem solving, to gain the thinking skill, technology literacy, and the ability to apply knowledge to use in daily life with honesty and integrity, self-discipline, avidity for learning, dedication and commitment to work and gentlemen of Assumption College

### **Textbook**

*The Universe*, Orient Blackswan 2012 or 2014  
ISBN: 978-0-20106-682-1

### **Course Outline & Objectives**

#### **Unit 1. The Universe.**

##### ***Chapter 1: Stars and Constellations***

- Explore and explain nature and development of constellations.

##### ***Chapter 2: More about Stars***

- Explore and explain the formation and evolution of stars.

#### **Unit 2: More about Stars**

##### ***Chapter 3: History of Astronomy***

- Explore and explain the formation and evolution of solar systems.





**Chapter 4: How the Universe Began**

- Explore the beginning of time and the big bang.

End of Midterm Exam Content – Start of Final Exam Content

**Chapter 5: Galaxies, Milky Way and Solar System**

- Explore and explain the formation of our solar system.
- Define a planet and its structure.

**Chapter 6: Kepler's Law, Measurement of Time, Chronology and Eclipse**

- Understand the measurement of time.

**Chapter 7: Planets, Asteroids and Comets**

- Explore and explain other objects in our solar system.
- Explore and explain satellite launches and calculate the orbit speed of satellites around the earth.

**Chapter 8: Telescopes and Space Explorations**

- Explain launches and space exploration using spacecrafts and space stations.
- Explore recent launches and space exploration and our current space stations.

**Resources**

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|----------|--|
| Required | <ul style="list-style-type: none"><li>• Notebook</li><li>• Scientific calculator (not a phone-based application)</li><li>• Ruler</li></ul> |
|----------|--|

**Academic Integrity Policy**

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**Behavioral Expectations**

For the sake of all the members of the class, students are expected to respect themselves, their classmates, the teacher, and the facilities. Students must accept responsibility for themselves and their actions. Students are expected to be ready at the start of every class (Notebook, textbook, scientific calculator, writing utensils, etc.) and to actively participate throughout the lesson until class is dismissed.



A behavior score (out of 5 points) is taken every day. At the end of the semester the average is taken and used for the student's behavior score (10%).

Additionally, all Thai students are expected to embrace the following *desired characteristics*:

- Possess discipline
- Eager to learn
- Be an AC gentleman
- Dedicated to work

### Attendance & Tardiness

Attendance will be taken at the start of every class. Students are expected to be in class on-time, every time. Unexcused absences or tardiness will not be tolerated. In the case of planned absences, please notify the teacher in as far in advance as possible. Students are expected to catch up on all missed work outside of class time.

### Assignments & Classwork

Assignments and classwork will be assigned often and must be submitted on or before the due date. Late assignments can be submitted for a maximum of 50% up until the last week of the term. All late or missed assignments that are not turned in *before* the last week of the term will receive a zero.

### Grading

Foundation Earth Stars & Universe follows to the Assumption College grading scale:

<i>Final Score</i> $\geq$ 80%	4.0
$75\% \leq$ <i>Final Score</i> < 80%	3.5
$70\% \leq$ <i>Final Score</i> < 75%	3.0
$65\% \leq$ <i>Final Score</i> < 70%	2.5
$60\% \leq$ <i>Final Score</i> < 65%	2.0
$55\% \leq$ <i>Final Score</i> < 60%	1.5
$50\% \leq$ <i>Final Score</i> < 55%	1.0
<i>Final Score</i> < 50%	0.0

### Evaluation and Assessment

The final semester grade for this course out of 100% is broken down as follows:

Assignments/Classwork/Lab	30%
Quiz/Test	15%
Notebook	5%
Behavior	10% (program mandated)
Midterm (Summative) Exam	20% (program mandated)
Final Exam	20% (program mandated)



### **Recommendations for Success**

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All students are encouraged to try the following:

1. Read, read, read the textbook at home. Oftentimes, reading the text once is not enough even for native English speakers. You may need to read the material multiple times to understand. By reading along at home with the lessons taught at school (typically only a few pages per night), students will be able to responsibly manage the material and gain the most from the course.
2. Search online, in either Thai or English, if you do not understand a topic discussed in class or simply to get a better understanding of the topic.
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5. Do the review questions at the end of the chapter and see the teacher for the answers.
6. Study the notes and vocabulary at least a few minutes every day, such as in homeroom or during any free time you might have in other classes.