



MA30101 Foundation Mathematics 1

Teacher	Mr. Shiv Kumar
Contact	Science Lab, 2 nd Floor Colombet Building. shiv.ku@assumption.ac.th
Class Time	EP-M4/1: Monday Period 2, Tuesday Period 6 EP-M4/2: Monday Period 1, Friday Period 2 EP-M4/3: Monday Period 7, Tuesday Period 7
Credits	1.0

Course Description

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

[Book 1] Barron's SAT Math Level 1, 13th Edition.

[Book 2] IGCSE Cambridge International Mathematics Extended (0607), 2015 Edition
Additional teacher handouts

Online resources

Khan Academy, Kahoot and Schoology

Course Outline & Objectives

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

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

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. Chris Won

Contact EP Teacher Room, 2nd Floor Colombet Bldg.

Class Time EP-M4/1: Wed, period 1; Thurs, period 5

EP-M4/2: Mon, period 3; Fri, period 4

EP-M4/3: Wed, period 4; Thurs, period 2

Credits 1.0

Course Description

This mathematics course focuses on the topics of sets and set operations, Venn and Euler diagrams, inclusion-exclusion principle, propositional and predicate logic, truth tables, tautology, introduction to mathematical proof, and elementary number theory on divisors, the division algorithm, and the Euclidean algorithm. This course enables students to learn and use mathematical skills and processes which include problem-solving, reasoning, communications, mathematical implication and presentation, mathematical connections, and creative thinking. Students are encouraged to have responsibility, discipline, self-confidence, and positive attitudes toward mathematics. The course closely follows the content of the Thai syllabus while also exposing students to questions and word problems from an international syllabus.

Textbook

Wazir, Ibrahim. Higher Level Mathematics: Developed Specifically for the IB Diploma. Pearson, 2012. ISBN 978-0-435-07496-8

Course Outline & Objectives

Learning Units	Chapters from the textbook
1. Naive Set Theory 1.1. Set notation and equality, equivalence of sets* 1.2. Subset and power set 1.3. Venn-Euler diagram* 1.4. Set Operations: Union*, Intersection*, Complement*, Difference* 1.5. Inclusion-Exclusion Principle*	<i>Chapter 1. Fundamentals</i> <i>Chapter 12. Probability</i> <i>Notes provided by the instructor</i>

2. Elementary Number Theory

2.1. Definition of divisibility*

2.2. Greatest common divisors and least common multiples*

2.3. The Division Algorithm*

2.4. The Euclidean Algorithm

[Not covered in the textbook] Notes provided by the instructor



3. Mathematical Logic 3.1. Propositional Logic 3.2. Logical Operators 3.3. Predicate Logic 3.4. Logical Quantifiers 3.5. Truth Tables 3.6. Tautology 3.7. De Morgan's Laws 3.8. Introduction to Proof 3.9. Mathematical Induction	<i>Chapter 1. Fundamentals</i> <i>Chapter 20. Theory of Knowledge</i> <i>Notes provided by the instructor</i>
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* Denotes topics that are related to the SAT and University Entrance Exams. The teacher will make appropriate links and give example exam questions where possible.

Resources

- Google Classroom
- My Open Math
- A4 paper or notebook
- iPad
- Macbook Air/Pro
- Writing supplies

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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.

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



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

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

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 & Projects

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 may be completed and submitted to qualify towards eligibility for exams. At the end of the semester, if the students have not completed a sufficient number of 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:

Formative (Tests, Quizzes, Assignments)	50%
Behavior	10%
Midterm Exam	20%
Final Exam	20%

Recommendations for Success

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

1. Read the provided course notes. You may need to read the material multiple times to understand. By reading along at home with the lessons taught at school, 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 don't understand a topic discussed in class or simply to get a better understanding of the topic.
4. Do not copy the work of your classmates' work; try to struggle through on your own. This will help you learn.
5. Seek the teacher 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 daily.



EN30101 Foundation English 1

Teacher Mr. Jonas Godson

Contact EP Teacher Room, 2nd Floor Colombet Building.
jonas.go@assumption.ac.th

Credits 1.5

Course Description

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

Cambridge Prepare B2 Level 7

Course Outline & Objectives

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 manner

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 (Handout given 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



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



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 (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 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.



EN30201 ENGLISH READING & WRITING

EP-M.4/1-2

Teacher: Mr. Steven Raine

COURSE DESCRIPTION:

Throughout the year we will prepare students for the **SAT READING/WRITING MODULES (previously known as SAT Verbal) & IELTS READING, WRITING**. Both are a prerequisite for joining a university international program. These skills will be used to master examination question types. Through a series of skill based and enriching lessons using Mr. Raine's expertise and selected authentic test materials, students will strengthen their core knowledge. This course is intensive. Students will have many opportunities to participate, and skill levels will be demonstrated in assessments, homework, and examinations. The course is at an advanced/pre-intermediate level (CEFR C1 & C2 level)

COURSE OBJECTIVES:

The main objectives of this syllabus are:

- **Language for Communication**
- **Language and Culture**
- **Language and Relationship with Other Learning Areas**
- **Language and relationship with Community and the World**

COURSE OUTLINE:

Syllabus is matched with the Thai curriculum Indicators:

M5	INDICATORS	STRANDS
READING	1. All types 2. Comprehension 4. supporting ideas 8. Opinions 14. Ideas, beliefs 17. Analyze 18. skim/scan 20. Investigate/search 21. community/national	Strand 1: Language for Communication F1.1 F1.2 F1.3
WRITING	3. Answer in sentences 6. Explain 8. opinions 10. News 11. Summarize 12. social, and global 14. Ideas, beliefs 15. grammar 16. grammar 17. Analyze 19. Academic topics 20. investigate/search 21. community/national	Strand 1: Language for Communication F1.1 F1.2 F1.3 Strand 2: Language and Culture F2.1 F2.2 Strand:3 F3.1 Strand 4: Language and Relationship with Community and the World F4.1

SPECIFIC SKILLS:

IELTS WRITING TASK TWO

Writing has two tasks, a report and an essay, both adding up to an overall IELTS writing score of 0-9 and includes: Essay content and structure (patterns of organization, paragraphing,



discussion – argument/counter-argument, advantages and disadvantages, topic sentence and supporting ideas, coherence and cohesion,

IELTS WRITING TASK ONE

Writing includes: Functions (generalization, definitions, classification, comparison and contrast, cause and effect, process and procedure, interpretation of data).

ESSENTIAL KNOWLEDGE Note taking is the essential skill and students should practice listing single words as prompts to speaking.

GRAMMAR: Present perfect versus past simple--Present tenses to describe books and films--Present continuous--Past perfect and continuous-- Prepositions of time --Prepositions of place --Future simple tense --Sentences, simple and compound –conjunctions--Passive voice--adjectives --Superlatives

Grading and Assessment: Assessment will be based on class participation, individual and group discussions, written assignments.

LEARNING MATERIALS

News, announcements, fictions, non-fictions, media, diagrams, graphs, personal experience, topical events, stories, manners and culture, traditions, festivals, language structures, idioms, life skills, native speakers,

LANGUAGE SKILLS,

Conceptualization, analysis, communication problem-solving, critical thinking & technology.

DESIRED CHARACTERS – 1) Love for the country and the king, faith in the religion
2) Be honest and upright 3) Possess discipline 4) Eager to learn 5) Be self-sufficient
6) Dedicated to work 7) Love for Thainess 8) Have a sense of public consciousness and
9) Be an AC gentleman.

RESOURCES:

Textbooks, Handouts, exam papers, worksheets, student notebooks, presentations, information technology

Required

- Notebooks.
- Dictionary

Suggested

- Many different colored pens/markers/highlighters

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 (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. 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% 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:

<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:

Total Score of all Formative Assessment*	50%
Behavior	10%
Midterm (Summative) Exam	20% (program mandated)
Final Exam	20% (program mandated)

* This total score shall be reflected by the cumulative points scored by students on all class assignments, homework, extra credit work, etc.

Assessment determination:

This syllabus is based on the important skills that students will need to successfully pass the IELTS test at level 6. The assessment will be based on students' understanding of what is expected in the different modules of the test (Listening, Reading, and Writing & Speaking).

Recommendations for Success

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

1. Be on task during class. Focus and follow instructions and do the required activities to your best abilities. Do not worry about making mistakes as they are the best way for us to incorporate the materials into our long-term memories.
2. Search online (in English) if you don't understand a topic discussed in class to get a better understanding of the topic.
3. Do not copy your classmate's 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. Revise your work, as recommended by your teacher and work to continuously improve your work. Learning is a process, not a product.
6. 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.



EN30241 English for Life Skills 1
Class: EP-M.4/1-3
Teacher: Mr. Joshua Bolen, (Mr. Bolen)

COURSE DESCRIPTION:

Welcome to English for Life Skills M4! Through a series of engaging and enriching lessons using Mr. Bolen's selected materials, students will continue to strengthen their core knowledge of the language.

The Students will study and listen to a range of English texts. The Students will study and learn how to give effective presentations. They will use learning skills in the 21st century, which encourages the students to be able to have listening, critical thinking and problem solving skills. The learning skills will be used to make students possess learners' key competencies, which are thinking capability, problem solving capability, capability in applying life skills and capability in technological application. This will be done through the teaching and learning focusing on promoting Thai wisdom with respect to the language and literature and religion and tradition. Teaching and learning also promotes students to live under the Sufficiency Economy Philosophy. Students will be provided with desirable characteristics such as love of nation, religion and king, honesty and integrity and self-discipline. Additional important characteristics are avidity for learning, observance of principles of Sufficiency Economy Philosophy in one's way of life, dedication and commitment to work, cherishing Thai-ness, public-mindedness and gentlemen of Assumption College.

COURSE OBJECTIVES:

Indicators

1. Listen to speakers from a range of countries, using different accents and talking in a range of contexts and situations.
2. Predict content before a listening exercise. Use contextual clues to anticipate topics, potential vocabulary and potential grammatical structures before listening.
3. Listen for gist. Show an understanding of the main ideas of a listening exercise after one listen.
4. Understand signposting language when listening. Show a knowledge and understanding of signposting language and how and why it is used. Make lists of the most common signposting language.
5. Listen for detail. Pick out specific information in a listening passage.
6. Infer relevant details when listening. Use contextual clues to gather information about meaning, who is speaking, what is happening and other questions appropriate to the listening exercise.
7. Practice listening activities that are connected to relevant international exams. Some of these should be done with past-paper questions and done in exam conditions.
8. Explain/discuss how listening can be improved, what techniques can be used and useful sources of practice material.
9. Watch examples of good and bad presentations. Have an accurate understanding of the characteristics of good and bad presentations and be able to plan presentations using



the good characteristics and avoiding the bad characteristics. The focus should be on presentation skills that may be useful for university admissions and studying at university.

10. Use verbal communication to effectively present information. Use various techniques such as variation of tone of voice and the stress of important words to convey ideas more clearly and concisely.

11. Use non-verbal communication effectively. Use various techniques such as body language and eye contact to show confidence to the audience.

12. Use signposting language effectively when presenting. Show a knowledge and understanding of signposting language and how and why it is used. Make lists of the most common signposting language that are used during presentations. 4. Talk and write interactively about personal information and other surrounding incidents, experiences, situations, news/events, and interesting issues in public attention, and communicate continuously and properly.

Learning Contents

Study English on the topics of news, announcements, poems, skits, and pictures, different non text information styles such as maps, graphs, and initiatives. Study non-fictions, fictions, personal information, various experiences, incidents, themes from analyzed stories, languages, voices, social manners and cultures, traditions and customs, festivals, language structures, idioms, proverbs, poems, ways of life, beliefs and cultures of native speakers, and information related to other learning content groups. Use process of establishing knowledge and understanding, reading process, process of establishing practical skills, working process, process of language skills, process of establishing attitudes, process of conceptualization, process of analysis, process of establishing realization, and process of establishing communicative knowledge and understanding to create knowledge and understanding, communicative ability, thinking ability, problem-solving ability, life skills, and ability to use technology. At the same time, students will have the following intended characteristics which are nationalism, religiosity, loyalty, disciplines, diligence, self-sufficiency, endeavor, love of being Thai, and public mind.

Resources

- Required ☐ At least 1 white notebook.
☐ Dictionary (English to English, not a translating one)
☐ Extra lines A4 paper for written assignments.
Suggested ☐ many different colored pens/markers/highlighters

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 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:

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

Total Score of all Assessment	Homework 80%
Behavior	10%
Attendance	10%

Recommendations for Success

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

1. Be on task during class. Focus and follow instructions and do the required activities to your best abilities. Do not worry about making mistakes as they are the best way for us to incorporate the materials into our long-term memories.
2. Watch Movies, or TV shows, or YouTube with British / Australian accents, with the English subtitles is a good way to improve your speaking and listening skills; it also helps with vocabulary too.
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. Revise your work, as recommended by your teacher and work to continuously improve your work. Learning is a process, not a product.



ST30101 Foundation Physics

Teacher Mr. Daniel Lubarda
Contact EP Teacher Room, 2nd Floor Colombet Bldg.
Email: daniel.lu@assumption.ac.th
Credits 1.5
Classes EP4/1; Mon P4, Wed P5, Thurs P6
EP4/2; Mon P7, Thurs P4, Fri P3
EP4/3; Wed P7, Thurs P1, Fri P4

Course Description

This introductory course to physics focuses on classical mechanics. Foundation Physics opens with a review of the science of physics, examining the necessity of units in measurements and covering common physics vocabulary terms. Subsequently, motion is studied in one and then two dimensions. After the fundamentals of motion, vector addition and projectile motion are covered. This course also covers wave motion, electromagnetism, and sound and light. The course offers both a conceptual foundation and an algebra-based presentation of physics. 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 SAT Physics test prep book by Barron's. The course is prerequisite to SC30211 Universal Physics 1.

Learning Content

Studying the basic knowledge in the field of calculating resultant force, acceleration of objects, action and reaction force, motion in a straight, Projectile motion, circular motion, vibration motion, magnetic field, the cause of EFM and the knowledge to use, the weak and strong force, reflection, diffraction, diffusion, frequency of sound, natural frequency, resonance, resonance effect, sound intensity, sound level affects hearing, the cause of resonance, beat, Doppler, sound resonance, the application of knowledge to use in daily life, the object's color visibility, color vision disorders, the function of color filters, light mixes, and their use in daily life, electromagnetic waves, the components of electromagnetic waves and the working functions of some devices that rely on electromagnetic waves, communication with analog signals with digital signals

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 & Resources

1. Cambridge IGCSE Physics Coursebook Second Edition (David Sang) 2014
ISBN: 978-1-107-61458-1

2. Lesson (learning) sheets from the teacher

Course Outline & Objectives

Unit 1: Linear Motion in One Dimension [Indicators SC 2.2 S.5/1]
Chapter 1: Conventions and Graphing



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Course Syllabus – Semester 1/2025

- Fundamental and Derived Units
- Graphing Variables
- Slope and Area
- Interpreting Graphs

Chapter 2: Vectors

- Coordinate System
- Scalars
- Vectors

Chapter 3: Kinematics in One Dimension

- Kinematic Quantities
- Identifying Variables
- Kinematic Equations
- Kinematic Graphs

Advanced Motions [Indicators ST 2.2 S.5/5]

- Circular Motion
- Simple Harmonic Motion

Unit 2: Motion in Two Dimensions [Indicators ST 2.2 S.5/5]

Chapter 4: Kinematics in Two Dimensions

- Independence of Motion
- True Velocity and Displacement
- Relative Velocity
- Projectile Motion

Unit 3: Mass and Newton's Laws of Motion [Indicators ST 2.2 S.5/3 and S.5/4]

Chapter 5: Dynamics

- Inertia
- Force
- Common Forces
- Force Diagrams
- Newton's Laws of Motion
- Solving Force Problems

End of Midterm Exam

Unit 4: Field of Force [ST 2.2 S.5/6]

- Fundamental physics forces
- Weak Force
- Strong Force

Unit 5: Waves

Chapter 15: Waves [ST 2.3 S.5/3, S.5/4]

- Traveling Waves
- Mechanical Waves
- Electromagnetic Waves
- Doppler Effect
- Superposition and Standing Waves

Unit 6: Sounds and Hearing [ST 2.3 S.5/5, S.5/6 and S.5/8]

- Nature of sound
- Speed of sound
- Properties of sound waves

Unit 7: Electromagnetic Waves [ST 2.3 S.5/11]

- Electromagnetic spectrum
- Applications of electromagnetic waves



Unit 8: Light [ST 2.3 S.5/9 and S.5/10]

- Eyes and Visibility
- Color

Additional topics (not in the Learning Units file, but included in Learning Standards & Indicators file):

Nuclear energy, fission and fusion [ST 2.3 S.5/1]

Alternative/renewable energy [ST 2.3 S.5/2]

Electrical & Magnetic fields and their interaction [ST 2.2 S.5/7 and ST 2.2 S.5/8]

Electricity generation (dynamamos) and Motors [ST 2.2 S.5/9]

End of Term- Final Exam

Resources

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|-----------|---|
| Required | <ul style="list-style-type: none">• Barron's SAT Physics 2nd Edition• Pearson's Physics (Walker, 2014)• Folder for Physics only (to keep handouts, etc.) |
| Suggested | <ul style="list-style-type: none">• Many different colored pens/markers/highlighters• Electronic Thai-English translator (not a phone-based application) |

Academic Integrity Policy

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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 (3 notebooks, 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%). Students *earn* the scores they receive.

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.

Classwork

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 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:

Classwork/Lab	20%
Quiz/Homework	20%
STEM	10% (program mandated)
Behavior	10% (program mandated)
Midterm Exam	20% (program mandated)
Final Exam	20% (program mandated)

Recommendations for Success

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

1. Read, read, read the Pearson's *Physics* 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 physics 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.



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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.

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- Floor Colombet Bldg.

Class Time EP-M 4/1: Monday Period 5, Wednesday Period 3, Thursday Period 3

EP-M 4/2: Monday Period 1, Tuesday Period 2, Thursday Period 5

Credits 1.5 (3 lessons per week)

Course Description

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

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

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

Supplementary:

- N/A

Course Outline & Objectives

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 and Covalent Bond
- The mole and basic calculations
- Giant Covalent Structures
- Metallic Bonds
- Polyatomic ions



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 percent yield

Stoichiometry (Chapter 5)

- Advanced calculations from Equations using the mole
- 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

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Suggested

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

Academic Integrity Policy

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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 (Notebook, textbook, scientific calculator, writing utensils, etc.) 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
- Be an AC gentleman
- Eager to learn
- Dedicated to work

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 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.

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. Michael Salutin

Contact EP Science Lab Teacher Room, 2nd Floor, Colombet Bldg.

Class Time EP-M 4/1 & 4/2 Mon, Tues, Wed, Thur

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: Organnisms and their Environment (Chapters 19 & 20)

- Ecosystems
- Ecological succession
- Human, natural resources and organisms

Unit 2: Maintaining Equilibrium in Organisms

- Structure/function of parts in plant & animal cells (3.1)
- Direct transport of substances through a cell membrane (3.2)
- Transport of substances across proteins in a cell membrane (3.3)
- Bulk transport / vesicle transport (8.1-8.4, 9.1-9.5)
- Equilibrium maintenance mechanism (13.1-13.2,14.1-14.3)

Unit 3: Immune System (10.1-10.6)

- Body defenses against foreign matter and destruction mechanism
- Diseases caused by immune system disorders

Unit 4: Photosynthesis (6.1-6.7)

- Photosynthesis
- Benefits of substances produced by plants
- Growth of plants
- Plants' response to stimuli
- Use of manmade substances to control plant growth

Unit 5: Genetics and Genetic Inheritance (17.1-17.9)

- Genetic characteristics
- The cell cycle and cell division
- Trait inheritance by genes on sex chromosomes
- Multiple alleles
- Mutation
- Advances in DNA technology application



Resources

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

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.

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.
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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.