



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 5, Wednesday Period 6 EP-M4/2: Tuesday Period 3, Wednesday Period 3
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 5; Thurs, period 4
EP-M4/2: Wed, period 2; Thurs, period 1
EP-M4/3: Mon, period 1; Tues, period 7

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 <ol style="list-style-type: none"> 1. Set notation and equality, equivalence of sets* 2. Subset and power set 3. Venn-Euler diagram* 4. Set Operations: Union*, Intersection*, Complement*, Difference* 5. Inclusion-Exclusion Principle* 	Chapter 1. Fundamentals Chapter 12. Probability <i>Notes provided by the instructor</i>
2. Elementary Number Theory <ol style="list-style-type: none"> 1. Definition of divisibility* 2. Greatest common divisors and least common multiples* 3. The Division Algorithm* 4. The Euclidean Algorithm 	<i>[Not covered in the textbook]</i> <i>Notes provided by the instructor</i>
3. Mathematical Logic <ol style="list-style-type: none"> 1. Propositional logic 2. Logical operators 3. Predicate logic 4. Logical quantifiers 5. Truth tables 6. Tautology 	Chapter 1. Fundamentals Chapter 20. Theory of Knowledge <i>Notes provided by the instructor</i>



- | | |
|--|--|
| 7. De Morgan's Laws
8. Introduction to proof
9. Mathematical induction | |
|--|--|

* 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
- MyOpenMath
- Paper or notebook
- iPad
- Macbook
- Writing supplies

Academic Integrity Policy

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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
- Possess discipline
- Be self-sufficient
- Be honest and upright
- Proud to be Thai
- Have a sense of public consciousness
- 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.



THE **ENGLISH PROGRAM** AT ASSUMPTION COLLEGE
Course Syllabus – Semester 1/2026

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 M4 Foundation English

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
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. (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
- 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
- Many different colored pens/markers/highlighters



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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 1

Teacher	Mr. Christopher Allen Reese
Contact	EP Teacher Room, 2 nd Floor Colombet Bldg. christopher.re@assumption.ac.th
Class Time	EP-M5 - Two Periods a Week for Each Class
Credits	1

Course Description

This course aims to prioritize learners' reading, writing, listening, and speaking skill development within the context of improving students' performance on the IELTS exam. The course is oriented towards a CEFR B2 level (IELTS 6) in order to help learners transition into the higher-scoring band ranges.

Textbooks

McCarter, S. (2012) IELTS Introduction, Student's Book.

Course Outline & Objectives

Week 1: Icebreaker Activities and Establishing Classroom Routines

Weeks 2-5: Unit 2: *In search of time*

- Vocabulary: Collocations with *time*
- Listening: Part 2 (multiple choice, completing a table, matching)
- Speaking: Using synonyms, planning a part 2 answer
- Reading: Sentence completion, True/False/Not Given, Matching (Classifying)
- Writing: Part 2 (Writing an opinion paragraph), using linking words to connect ideas

Weeks 5-9: Unit 3, *Giving structure to our world*

- Listening: Part 3 (multiple choice, table completion, matching)
- Grammar: Likes / Dislikes and Preference, Verb Patterns
- Speaking: Part 2 (Describing a like / dislike)
- Reading: Matching information, True/False/Not Given
- Writing: Part 2 (Giving details and expanding ideas)

MIDTERM EXAM

Weeks 11-13: Unit 4, *The land*

- Speaking: Part 1 (describing places)
- Listening: Multiple choice, Completing notes, Map labelling
- Grammar: Passives
- Reading: Matching information, Matching, Short-answer questions, Multiple choice
- Vocabulary: Describing locations on maps
- Writing: Part 1, Describing changes on maps



Weeks 14-16: Unit 5, *The processes in life*

- Vocabulary: Forming adjectives and nouns, language for cause and effect, process language
- Listening: Completing notes
- Speaking: Part 2 (giving an expanded answer), Part 3 (describing cause and effect)
- Writing: Part 2 (A paragraph describing the impact of technology), Part 1 (describing a process)
- Reading: Summary completion, Choosing items from a list, Completing a flowchart

Weeks 17-18: Unit 6, *Read what you want*

- Grammar: Revision of future forms
- Writing: Part 1 (future projections)
- Reading: Matching headings, Matching, Multiple Choice

FINAL EXAM

Resources

- | | |
|----------|--|
| Required | <ul style="list-style-type: none">• 1 notebook (1 white notebook)• Folder for English only (to keep handouts, etc.)• Textbooks• Blue or black pen + red pen for checking work• Dictionary (English to English) |
|----------|--|

Other resources such as worksheets will be given throughout the summer semester. These may be shared on Google Classroom in digital form.

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, worksheets, English Folder, 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
- 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 but some marks will be taken off as a penalty. All late or missed assignments that are not turned in *before* the last week of the term will receive a zero. For an assignment to be submitted after the due date, the student must provide:

- Their name & surname
- Student ID number
- A reason for explaining the delay and late submission
- A suggestion for a new due date

The grade for the summer course will be primarily taken from coursework done in class. Classwork will be provided feedback / error correction and will be handed back in a timely fashion.

Evaluation and Assessment

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

Formative	50%
Behavior	10%
Midterm	20%
Final	20%

Recommendations for Success

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

1. Have your materials for English on your desk at the beginning of class.
2. Pay attention and listen carefully while taking notes.
3. Always use English during discussions.
4. Do your homework yourself and do not copy.
5. Come see the teacher outside of class time for assistance.
6. Always do your best.



ST30101 Foundation Physics

Teacher	Mr. Daniel Lubarda
Contact	EP Teacher Room, 2 nd Floor Colombet Bldg. Email: daniel.lu@assumption.ac.th
Credits	1.5
Classes	EP4/1; Mon P7, Tues P2, Thurs P2 EP4/2; Mon P2, Tues P1, Wed P6 EP4/3; Mon P5, Tues P4, Thur P1

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

Chapter 1: Conventions and Graphing

- 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

- Circular Motion
- Simple Harmonic Motion

Unit 2: Motion in Two Dimensions

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

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

- Fundamental physics forces
- Weak Force
- Strong Force

Unit 5: Waves

Chapter 15: Waves

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

Unit 6: Sounds and Hearing

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

Unit 7: Electromagnetic Waves

- Electromagnetic spectrum
- Applications of electromagnetic waves



Unit 8: Light

- Eyes and Visibility
- Color

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

Nuclear energy, fission and fusion

Alternative/renewable energy

Electrical & Magnetic fields and their interaction

Electricity generation (dynamamos) and Motors

End of Term- Final Exam

Resources

- | | |
|-----------|---|
| 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

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 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 (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



THE **ENGLISH PROGRAM** AT ASSUMPTION COLLEGE
Course Syllabus – Semester 1/2026

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.
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.



ST30102 Foundation Chemistry

Teacher	Mr. Michael Dew
Contact	EP Teacher Room, 2- Floor Colombet Bldg.
Class Time	EP-M 4/1: Tuesday Period 1, Wednesday Period 4, Thursday Period 5 EP-M 4/2: Monday Period 6, Thursday Period 4, Friday Period 3
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

End of Midterm Exam Content – Start of Final Exam Content

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



- 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

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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 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. Michael Salutin
Contact EP Science Lab Teacher Room, 2nd Floor, Colombet Bldg.
Class Time EP-M 4/1 & 4/2 Mon, Tues, Wed, Thu, 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: Organisms 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

- | | |
|-----------|--|
| 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.
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 the Universe

Teacher Mr. Nicholas Crook
Contact EP Teacher Room, 2nd Floor Colombet Bldg.
Nicholas.cr@assumption.ac.th
Credits 1.5

Classes Monday Period 5 (M4/2)
Tues Period 7 (M4/1)
Thursday Period 2 (M4/2)
Thursday Period 5 (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

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

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 (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



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 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.



OC30104 Foundation Occupational Works 1

Teacher	Dr Hermann Gruenwald		
Contact	EP Teacher Room, 2 nd Floor Colombet Building Hermann_GR@assumption.gmail.com		
Website	https://classroom.google.com/c/ODYzNTE4ODg3OTYw https://classroom.google.com/c/ODYzNTE5MDAyNjAz https://classroom.google.com/c/ODYzNTE5NTc4ODcx		
Class Time	EP M4/1	Friday	10:10 – 11:10
	EP-M4/2:	Monday	14:50 – 15:40
	EP M4/3	Thursday	09:20 – 10:10

Credits 0.5

Course Description

This introduction to the upper-mathayom Occupational Works course focuses on the basic principles of craftwork and the development of skills and creativity in producing craftworks. Group, pair, and individual work will incorporate theory of craftwork with a practical integration.

Students will work on projects which give them the opportunity for creativity and design. They will refine their research, planning, designing, and collaborative skills and apply them to producing craftwork that include woodwork and electrical work. Students will gain experience in using a variety of tools as well as developing their working processes.

The goals of the Occupational Works subject are to:

- endow students with creative opportunities and curiosity
- refine skills for individual and group working processes such as management, teamwork, problem-solving and attention to detail
- develop and apply research and investigation skills to coursework
- improve awareness of human impact on the environment for one's life and family
- acquire technological knowledge for occupational development
- promote awareness of nationalism, religiosity, royalty, honesty, self-discipline, studiousness, self-sufficiency, endeavor, love of being Thai, and public-mindedness.

Course Outline & Objectives

Unit 1: Basic principles of craftwork (theory)

Unit 1.1: Woodwork and electrical work for crafts (*Indicators 1, 2, 3, 5*)

- Understand the working process for creating craftwork.
- Research and identify basic woodworking tools and their applications for crafts.
- Research and identify basic electrical tools / devices and their applications for crafts.

Unit 1.2: Design and selection of material for craftwork (*Indicators 1, 2, 3, 4, 7*)

- Recognize the basic principle and procedure for creating craftwork with creativity.



- Identify how to select appropriate materials for craftwork based on limitations of tools, equipment and funds (reuse or recycle items).

Unit 1.3: Creativity and intellectual property (*Indicators 3, 4, 5, 11*)

- Identify the process of designing with creativity using modern examples.
- Distinguish between various aspects of intellectual property protection such as; copyright, trademarks, geographical indication and patents.
- Compare tangible versus intangible intellectual property.
- Discuss methods of enforcing intellectual property rights if they are violated.

Unit 1.4: Creative Occupations (*Indicators 8, 9, 10*)

- Discuss types of creative occupations and guidelines for taking them up.
- Students determine if they have aptitude and interest in creative occupations.
- Identify ways to gain experience in creative occupations of interest.

Unit 2: Integration for craftworks (practice)

Unit 2.1: Craftwork for environmental conservation (*Indicators 3, 4, 6, 7*)

- Produce your own work from leftover materials to help reduce global warming effects (individual work).
- Create, design and select materials appropriate to the brief.

Unit 2.2: Useful crafts (*Indicators 1, 2, 3, 4, 5, 6*)

- Express in writing the inspiration to create the work.
- Write the plan for the project.
- Use woodworking skills to create an item in pairs.

Unit 2.3: Craft project (*Indicators 2, 3, 4, 5, 6, 7, 11*)

- Work in groups to create an electrical item.
- Present work by setting up an exhibition
- Take photographs of your craftworks and present your work online.

Resources

Required	<ul style="list-style-type: none">• Pink AC notebook A3• AC 3 ring binder portfolio A4• Basic stationary (pen, pencil, eraser, ruler, glue, sharpener etc)
Suggested	<ul style="list-style-type: none">• Various colored pens / markers / highlighters / pencils
Occasional	<ul style="list-style-type: none">• Electrical / woodworking tools• Specific craftwork materials or items• Leftover waste materials to construct projects <p><i>The above will be requested a week in advance of use</i></p>

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.

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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 (sketch book, basic stationary, materials, ingredients etc.) and to actively participate throughout the lesson until class is dismissed.

Behavior and participation is monitored during every class and points are deducted for misbehavior, non-participation or disruption to the class. This is averaged throughout the semester and calculated as a score of 10 at the end of semester.

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

- Possess discipline
- Be an AC gentleman
- Be honest and upright
- Be eager to learn
- Be dedicated to work
- Have a sense of public-consciousness

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 & Class Work

Homework and class work will be assigned often, must be completed to a high standard and be submitted on or before the due date. Late assignments are subject to 50% less marks for each week they are late. All missed assignments will receive a zero and will dramatically reduce the averaged class work and homework scores of the individual.

Grading

This course follows to the Assumption College grading scale:

$Final\ Score \geq 80\%$	4.0	A
$75\% \leq Final\ Score < 80\%$	3.5	B+
$70\% \leq Final\ Score < 75\%$	3.0	B
$65\% \leq Final\ Score < 70\%$	2.5	C+
$60\% \leq Final\ Score < 65\%$	2.0	C
$55\% \leq Final\ Score < 60\%$	1.5	D+
$50\% \leq Final\ Score < 55\%$	1.0	D
$Final\ Score < 50\%$	0.0	F



Evaluation and Assessment

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

Behavior & Participation	20%	Affective Domain
Formative 1 Class Work & Home Work	15%	Formative
Formative 2 Class Work & Home Work	15%	Formative
STEM	10%	Formative
Midterm Exam	20 %	Exams
Final Exam	20%	Exams

Recommendations for Success

1. Bring all the materials that are needed to complete projects on the day of class
2. Be creative and work hard for your own success and learning.
3. Don't be afraid to experiment and have fun studying
4. Plan projects carefully and have the required materials for your project
5. Keep your notebook tidy, attractive and up-to-date and submit work on time
6. Check schoology.com for assignments and course materials and grades



Student Syllabus for: EP4 English for Life Skills 1: EN30241

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, 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 | <input type="checkbox"/> At least 1 white notebook. |
| | <input type="checkbox"/> Dictionary (English to English, not a translating one) |
| | <input type="checkbox"/> Extra lines A4 paper for written assignments. |
| Suggested | <input type="checkbox"/> 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 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:

<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.



Precise resources:

- **Teacher** Handouts, Worksheets, Presentations.
- Whiteboards & Projector.

Parent/Guardian Acknowledgement

Dear Parent/Guardian:

Please sign below to acknowledge that you have reviewed this course syllabus with your son. Thank you. I look forward to teaching your son this year!

Student's Name

Student's ID No.

Parent/Guardian Signature

Date