



MA30102 Foundation Mathematics 2

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, Wednesday Period-3 EP-M4/2: Wednesday Period-6, Friday Period-6
Credits	1.0

Course Description

Before midterm exams:

The first topics will be function and relations, domain and range of a function and different types of functions. Relations and an introduction to functions: definitions and terminology.

As with many courses within EP, critical thinking skills are emphasized over those of rote learning and where possible an investigative approach is used.

After midterm exams:

After the midterm exams, the different types of functions explored will continue in particular, drawing linear, quadratic, exponential, absolute and step functions. The topics of unit circle along with trigonometric value of 30, 45 and 60 degree and the application of trigonometry for height and distance problems.

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 * For new students, or those who have lost this EP3 textbook, I will have a shared online version.

Additional teacher handouts

Online resources

Khan Academy, Kahoot and Schoology

Course Outline & Objectives

Learning Unit 1.1: **Relations** [Strand 1, Standard MA1.2, Indicators MA 1.2 S.5/1]

1. Ordered pairs
2. Cartesian product
3. Relations
4. Graphs of relations
5. Domain and range of a relation
6. Inverse of a relation

Learning Unit 2: **Functions** [Strand 1, Standard MA1.2, Indicators MA 1.2 S.5/1]

1. Definition of function



2. Domain and range of function
3. Value of a function $f(x)$

End of Midterm Exam Content – Start of Final Exam Content

Learning Unit 2: **Functions** [Strand 1, Standard MA2, Indicators MA 2.1 S.5/2]
continued..

4. Types of functions
 - Linear and Quadratic functions
 - Exponential function
 - Absolute value function
 - Step function

Learning Unit 3: **Trigonometry** [Strand 1, Standard MA2.1, Indicators MA 2.2 S.2/1]

1. trigonometric ratio
2. calculation of 30, 45 and 60 degree of trigonometric identities
3. relation between side and angles
4. height and distance problems

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.



MA30214 Universal Mathematics 2

Teacher Mr. Chris Won

Contact EP Teacher Room, 2nd Floor Colombet Bldg.

Class Time EP-M4/1: Wed, period 1; Fri, period 4
EP-M4/2: Mon, period 5; Tues, period 4

Credits 1.0

Course Description

This mathematics course focuses on the topics of matrices and determinants, functions, and analytic geometry. 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 exposes 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
<p>1. Matrices and Determinants</p> <ol style="list-style-type: none"> 1. Matrix <ol style="list-style-type: none"> 1. Types and properties of matrices 2. Determinant <ol style="list-style-type: none"> 1. Find the determinant of a $n \times n$; $n \leq 3$ matrix 2. Find the determinant of a $n \times n$; $n > 3$ matrix 3. Properties of determinant 3. System of linear equations <ol style="list-style-type: none"> 1. Elementary row operation 2. Inverse multiplication of matrix 3. Cramer's Rule 	<p><i>Chapter 9. Vectors</i> <i>Chapter 6. Matrix Algebra</i></p>
<p>2. Functions</p> <ol style="list-style-type: none"> 1. Definition of a function 2. Types of functions <ol style="list-style-type: none"> 1. Identify functions 2. Monotonic Functions 3. Quadratic functions 3. Algebra of functions 4. Composite functions 	<p><i>Chapter 2. Functions</i></p>



5. Inverse functions	
3. Analytic Geometry 1. Foundation of analytic geometry 1. Distance between two points 2. Midpoint between two points 3. Slope of linear, parallel and perpendicular 4. Solving linear equations 5. Distance between a line and a point 6. Distance between parallel lines 2. Conic sections 1. Parabolas 2. Circles 3. Ellipses 4. Hyperbolas	<i>Not covered in the textbook</i> <i>Use teacher's notes</i>

Resources

- Google Classroom
- My Open Math
- A4 plastic portfolio (to keep all student work and handouts)
- A4 paper or notebook
- Ruler
- 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.
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.



EN30102 Foundation English 2

Teacher Mr. Jonas Godson

Contact EP Teacher Room, 2nd Floor Colombet Bldg.
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. Starting with parts of speech and focusing on more complex grammar tenses, such as present perfect simple, present perfect progressive and past perfect simple, and then moving on to prefixes and suffixes, conditionals and comparative and superlatives.

For reading, the focus will be on more advanced reading skills and higher level critical thinking skills. Writing will be more focused on essays and complex, flowing paragraphs and connectives. Speaking and listening will be integrated into activities, but phonetics and correct pronunciation will be highlighted. There will be more of an emphasis on debating, rather than role-playing.

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

Textbook

(Cambridge) Prepare – Student book with activity workbook B2 – Level 7

Course Outline & Objectives

Weeks 1 & 2: Unit 6: Totally Emotional

Vocabulary: Emotions that students experience, fears and phobias
Reading: Reading and discussion – When fear becomes phobia
Grammar: be / get used to
Writing: Students write about new habits they have adapted to

Weeks 3 & 4: Unit 7: Telling Stories

Vocabulary: Verbs of movement and sound
Reading: Tales from Sherlock Holmes
Identifying main ideas and supporting information from text
Grammar: Narrative tenses
Writing: Writing a good story

Weeks 5 & 6: Unit 7: Telling Stories continued

Vocabulary: Verbs of movement and sound
Reading: Tales from Sherlock Holmes
Identifying main ideas and supporting information from text
Grammar: Narrative tenses
Writing: Writing a good story

Weeks 7 & 8: Unit 9: A Bright Future

Vocabulary: Collocations
Reading: Discussing optimistic and pessimistic views about the future.
Grammar: Future continuous & Perfect



Writing: Writing a compare & contrast essay

Week 9 & 10: Revision & mid-term exam

Contents: Be / get used to, Narrative tenses, Writing a compare & contrast essay, Collocations, Future continuous & Perfect

End of Midterm Exam Content – Start of Final Exam Content

Weeks 11 & 12: Unit 16: New and improved

Vocabulary: Advertising: Nouns and verbs
Reading: Guerrilla Marketing – Is it effective?
Grammar: Conditionals, adverb + adjective collocations
Writing: Describing an advertising campaign

Weeks 13 & 14: Unit 16: New and improved continued

Vocabulary: Advertising: Nouns and verbs
Reading: Guerrilla Marketing – Is it effective?
Grammar: Conditionals, adverb + adjective collocations
Writing: Describing an advertising campaign

Weeks 15 & 16: Unit 18: Creative Careers

Vocabulary: The world of work
Reading: The Big Decision – Career choice
Grammar: Uses of verb + -ing
Writing: Agreeing & disagreeing about types of work

Weeks 17 & 18: Unit 18: Creative Careers

Vocabulary: The world of work
Reading: The Big Decision – Career choice
Grammar: Uses of verb + -ing
Writing: Agreeing & disagreeing about types of work

Week 19: Tourism in Thailand. (Handouts in class)

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

Week 20: Revision for final exam

Content: Conditionals, adverb + adjective collocations, uses of verb + -ing

Resources

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- | | |
|-----------|--|
| 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.• A Gmail email account would be beneficial. |
| Suggested | <ul style="list-style-type: none">• 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 & Class work

Homework and class work 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:

Participation in class	10%
Class work	10%
Notebooks	10%
Quiz 1	10%
Quiz 2	10%
Behavior	10% (Program Mandated)
Midterm Exam	20% (Program Mandated)
Final Exam	20% (Program 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 classtime 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.



EN30208 M4 English for Academic Achievement 2

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

Credits: 1.5

Course Description

The English for Academic Achievement course is designed to prepare students with the grammatical skills and knowledge for writing successful academic essays. The course involves strategies for reading, grammar-building, and critical thinking for intermediate learners of English. Lessons encourage students to examine important topics in their lives and describe them through the writing process. Students are carefully guided through the fundamental concepts of English Grammar with the purpose of producing well-organized, clearly developed paragraphs that are essential to academic writing in English. The course will also be aided by a novel written by famous author Louis Sachar to promote the habit of reading in everyday life and to strengthen the reading skill of the learner. Projects and additional activities will also be added where necessary to supplement the course.

Textbooks

Cambridge English Grammar in Use
Novel: Holes, Louis Sachar

Course Outline & Objectives

Weeks 1 & 2: Job interview skills

Scope and sequence:

- Describing yourself
- Identifying strengths & weaknesses
- Presentation skills
- Grammar: Conditionals (Zero and First conditional)

Weeks 3 & 4: Job interview skills continued

Scope and sequence:

- Describing yourself
- Identifying strengths & weaknesses
- Presentation skills
- Grammar: Conditionals (Second and Third conditional)

Weeks 5 & 6: Writing an email application letter for a job

Scope and Sequence:

- Greeting
- Filling in the subject bar
- Concise paragraphs – delivering your message
- Thanking the receiver
- The signature

Weeks 7 & 8: Writing an email application letter for a job - continued



Scope and Sequence:

- Greeting
- Filling in the subject bar
- Concise paragraphs – delivering your message
- Thanking the receiver
- The signature

Weeks 9: Preparation for midterm exam

Scope and Sequence:

- All material in units 38 – 60

Weeks 10: Midterm exam period

Content:

- All business vocabulary taught in class and from the assignments
- All grammar taught in units 38 - 60

End of Midterm Exam Content – Start of Final Exam Content

Weeks 11 & 12: Employed vs. Self-Employed

Scope and Sequence

- The pros & cons of working for a company or institution
- The benefits and pitfalls of working for yourself
- Grammar: **Prefer** and **would rather**
- Auxiliary verbs

Weeks 13 & 14: Employed vs. Self-Employed continued

Scope and Sequence

- The pros & cons of working for a company or institution
- The benefits and pitfalls of working for yourself
- Grammar: **Prefer** and **would rather**
- Auxiliary verbs

Weeks 15 & 16: Business study: Work culture

Scope and Sequence:

- The culture of work
- Types of personalities in the office
- Office vocabulary
- Typical office setting and structure
- Grammar: Prepositions (in, for, about, with, instead of, etc.)

Weeks 17 & 18: Business study: Work culture continued

Scope and Sequence:

- The culture of work
- Types of personalities in the office
- Office vocabulary
- Typical office setting and structure
- Grammar: Prepositions (in, for, about, with, instead of, etc.)



Week 19: Preparation for final exam

Scope and Sequence:

- All material in units 38 – 60

Week 20: Final exam period

Content:

- All business vocabulary taught in class and from the assignments

All grammar taught in units 38 - 60

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.• A Gmail email account would be beneficial. |
| Suggested | <ul style="list-style-type: none">• 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

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Homework & Class work

Homework and class work 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:

Student book	10%
Notebook	10%
Quizzes	10%
Folder for worksheets	10%
Novel	10%
Behaviour	10% (Program Mandated)
Midterm Exam	20% (Program Mandated)
Final Exam	20% (Program 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 everyday 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.



Student Syllabus for: EP4 English for Life Skills 2: EN30242

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. 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:

This course is for preparation of the IELTS examination.

Indicators

- Understand the format, structure, and scoring criteria of the **IELTS**

Speaking test. • Familiarize students with the three parts of the test:

- **Part 1:** Introduction & Interview (4-5 minutes)
- **Part 2:** Long Turn (3-4 minutes, including preparation time)
- **Part 3:** Discussion (4-5 minutes)

Content:

- **Structure:** Timings and sections explained.
- **Assessment Criteria:**
 - **Fluency and Coherence:** Speaking smoothly and logically.
 - **Lexical Resource:** Using a wide range of vocabulary.
 - **Grammatical Range and Accuracy:** Using various structures and grammar correctly.
 - **Pronunciation:** Clarity and ease of understanding.

Learning Objectives:

- Build confidence in answering basic personal questions on familiar topics.
- Practice providing detailed responses to everyday topics.
- Develop strategies for expanding simple answers.

Content:

- Common Topics: Work/study, hometown, family, hobbies, daily routines, and future plans.
- Question Types: Open-ended questions that require more than just “yes/no” answers.
- Answer Expansion: Techniques for elaborating answers, including:



- Giving reasons and examples.
- Talking about likes/dislikes, experiences, and comparisons.
- Fluency Practice: Responding promptly with varied vocabulary.

Practice Activity:

- Vocabulary building.
- Practicing Part 2 topic responses.
- Sentence-building exercises focusing on fluency and coherence.

Part 2: The Long Turn (Cue Card)

Learning Objectives:

- Develop the ability to speak at length on a given topic.
- Practice structuring a 1-2 minute monologue.
- Enhance skills in organizing thoughts and using cohesive devices (linkers and connectors). Content:

- Cue Cards: Understanding the format, typically containing:
 - A topic (e.g., "Describe a place you have visited recently.")
- o 3-4 prompts (e.g., what you did there, who you went with, why you enjoyed it).
 - Preparation Time: Tips for using the 1-minute preparation wisely (brainstorming ideas, outlining).
 - Answer Structure: Beginning, middle, and end format for speaking.
 - Storytelling Techniques: Using descriptive language, past tenses, and time markers to tell a story.
 - Linking Words: Organizing thoughts using high level connectors

Part 3: Discussion

Learning Objectives:

- Engage in a more in-depth discussion, developing ideas, opinions, and complex responses.
 - Practice answering abstract and opinion-based questions related to the Part 2 topic.
 - Develop skills for responding to challenging follow-up questions.

Content:

- Common Themes: Social issues, education, technology, environment, etc.
- Critical Thinking Skills: Formulating opinions and supporting them with evidence, examples, and reasoning.
- Agreeing/Disagreeing: Phrases for expressing and justifying opinions and handling contrasting viewpoints.
- Complex Sentences: Using conditional structures, modals, and passive voice to add variety to responses.
- Interactive Techniques: Engaging with the examiner by asking for clarification if needed and responding naturally.

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 form of academic dishonesty, including any student supplying or allowing the copying to take place, will receive a zero. Plagiarism is the act of taking someone else's work or ideas and passing them off as one's own work or ideas. Examples of plagiarism include the failure to give appropriate acknowledgement when repeating another's idea, phrase, sentence or paragraph, or failure to give appropriate acknowledgement when paraphrasing any of those.

Behavioral Expectations

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

Students must accept responsibility for themselves and their actions. Students are expected to be ready at the start of every class (notebooks, textbook, writing utensils, etc.) and to actively participate throughout the lesson until class is dismissed. Behavior is monitored every day as per the class rules that are set out at the beginning of the academic year (see the front of your note books). At the end of the semester the average is taken and used for the student's behavior score (20%). Students *earn* the scores they receive.

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

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

Attendance & Tardiness

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

Homework & Classwork

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



Grading

This course follows to the Assumption College grading scale:

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

Evaluation and Assessment

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

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.



ST30105 Design & Technology

Teacher	Mr. Matt Harris
Contact	Location: 5th Floor Computer Lab
Class	EP-M 4/1: Friday 14:00 – 14:50
Time	EP-M 4/2: Monday 08:30 – 09:20
Credits	1.0

Course Description

To understand the key concepts of Design & Technology for living in a rapidly changing society; apply knowledge and skills in science, mathematics and other disciplines to creatively solve problem or develop work by using the engineering design process; select technology to use properly by taking into account impacts on life, society, and environment. Students will study the following topics: main concepts of technology, relationships of technology with other fields of study especially science or mathematics; evaluating its impact on humans, society, economy and environment so as to use the information as a guideline for developing technology. Students will apply many learning processes: attitude development process, knowledge and understanding development process, critical thinking process, practicing process and problem-solving process.

Course Outline & Objectives

Topics include: [Indicator 1,2,3,4]

Design & Technology [Indicator 1, 2, 3, 4]

Week 1: Introduction week

Week 2-4: **Unit 1.** Analyze the main concepts of technology and relationship of technology with other fields of knowledge especially science, or mathematics.

Week 5-6: Identify problems or needs that have impacts on society; gather and analyze information

Midterm Exam (Week 7 and 8)

Week 9-10: **Unit 2.** Design a solution by analyzing and comparing information; then, select essential information under the conditions and existing resources

Week 11-12: Test, evaluate, analyze and give reasons of problems or defects found within conditions scope; generate improvement alternatives

Week 13-14: **Unit 3.** Understand and use computational thinking concept to solve problems found in real life systematically and step by step; use information technology and communication for efficient learning, work, and problem solving.

Week 15: **Unit 4.** Apply computational thinking creatively to develop a project work which is integrated with other disciplines and is connected with real life.

[Indicators 1, 2, 3, 4]

Final Exam (Week 16)

Resources

Required • EP Computer Lab



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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. A behavior score (out of 10 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*:

- 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. 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:

STEAM	10%
Homework/Classwork	30%
Coursework	30%
Behavior	10% (program mandated)
Midterm Exam/Project	10% (program mandated)
Final Exam	10% (program mandated)

Recommendations for Success

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

1. Read, read, read the teacher's online notes. 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 more than just the bare minimum; there are plenty of problems in the teacher's online notes. 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.
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.



ST30103 Foundation Biology

Teacher Mr. Michael Salutin

Contact EP Teacher Room, 2- Floor, Colombet Bldg.

Class Time EP-M 4/2 B

Credits 1.5 (3 Classes/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 EP-M.4/2 B

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

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Behavioral Expectations

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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:

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

Evaluation and Assessment

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

Assignments/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.