



MA30106 Foundation Mathematics

Teacher	Dr. Keerthi Prabhakar
Contact	EP Teacher Room, 2 nd Floor Colombet Bldg.
Class Time	EP-M6/1: Tue, Period 6; Wed, Period 2 EP-M6/2: Mon, Period 6; Tue, Period 3
Credits	1.0

Course Description

This foundational mathematics course focuses on equipping university students with essential analytical tools across three key areas: rational exponents, functions, and fundamental statistics. Mastering rational exponents and roots enables students to simplify and manipulate expressions involving roots and powers, essential for advanced work in calculus, algebra, and scientific analysis. Logarithmic functions further extend this by transforming exponential relationships into linear ones, a vital skill for interpreting growth models and analyzing data in finance, engineering, and research.

Understanding functions is equally critical, as they model relationships between variables and real-world phenomena. Students learn to analyze and apply various functions—linear, quadratic, exponential, absolute value, and step functions—to interpret and predict dynamic changes, valuable for fields like economics, physics, and applied sciences.

Fundamental statistics offers a framework for data-driven analysis, guiding students through data collection, measures of central tendency, and dispersion. Techniques such as calculating mean, median, mode, standard deviation, and creating box-and-whisker plots are widely applicable in social sciences, biology, and business. Together, these mathematical concepts form a robust foundation for critical reasoning and quantitative analysis, empowering students to engage confidently with complex, real-world challenges across their academic and professional pursuits.

Textbooks

Mathematics for the International Student SL (Haese Mathematics)

ISBN 978-1-921972-08-9

Algebra 2 (Glencoe McGraw Hill) ISBN 13:9780078738302

Course Outline & Objectives

Learning Units
1. Rational Exponents <ol style="list-style-type: none">Exponential with rational number exponent'n^{th}' root of real numbersProperties of 'n^{th}' rootAddition, subtraction, multiplication, and division of numbers in the form of rootSolutions of equations in the form of exponentialLogarithms to base 'a'



7. Laws of logarithms.
2. Probability <ol style="list-style-type: none">1. Counting principles2. Basic Rules of Probability3. Permutation and Combination
3. Fundamental Statistics <ol style="list-style-type: none">1. Data collection2. Basic data analysis3. Finding central tendency by using arithmetic mean, median, mode*, harmonic mean, geometric mean, and mid-range4. Finding relative standing by using quartile, deciles, and percentile5. Measures of dispersion by using standard deviation6. Measures of dispersion by using box-and-whisker plots

Resources

- Graphing Calculator
- Worksheets
- Writing supplies

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 education and will not be tolerated. Students involved in any form of academic dishonesty, including any student supplying or allowing copying, will receive a zero.

Plagiarism is 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

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

Behaviour is monitored every class. At the end of the semester the points are accumulated and used for the student's behaviour 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.

Homework & Classwork

An assessment item must be submitted on or before the due date. **An assessment item submitted later than the due date, without an extension from the teacher, will not be graded and will result in an automatic score of zero.** Late homework, however, may be completed and submitted to qualify towards eligibility for exams. At the end of the semester, if the students have not completed 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:

<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:

Assignments/Projects	30%
Tests	20%
Behaviour	10% (program mandated)
Midterm Exam	20% (program mandated)
Final Exam	20% (program mandated)



Recommendations for Success

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

1. Read the course textbook. You may need to read the material multiple times to understand. Students can responsibly manage the material and gain the most from the course by reading along at home with the lessons taught at school (typically only a few pages per night).
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 to understand the topic better.
4. Do not copy your classmates' work; try to struggle independently. This will help you learn.
5. See the teacher outside of class time for assistance.
6. Do more than just the bare minimum; do the additional problems in the textbook and the review questions at the end of the chapter and check your answers.
7. Study the notes and vocabulary for at least a few minutes every day.



MA30218 Universal Mathematics 6

Teacher Mr. Shiv Kumar

Contact Science lab, 2nd Floor Colombet Building.
shiv.ku@assumption.ac.th

Class Time EP-M6/1: Tuesday Period-1, Wednesday Period-6, Friday Period-2
EP-M6/2: Monday Period-4, Wednesday Period-7, Friday Period-4

Credits 1.5

Course Description

The purpose of this class is to prepare you for the SAT test. In this class, you will be given an SAT style quiz at the beginning of the week every two weeks. Our first quiz will be at the beginning of next week. We will spend class time in between these quizzes going over the answers and learning SAT material and problem solving techniques. We will also review algebra lessons associated with the SATs. Each quiz you take will be graded. However, once we go over the answers in class, you can resubmit your corrected quiz and get a half point for each answer you corrected (you must show your work). For example, if you get a 50% on your quiz, you can change your grade to 75% by re-submitting your corrected quiz. You will also earn class participation by re-submitting your corrected quiz. The midterm test and final test will also be In SAT style format.

Textbook

Mathematics for the International Student Mathematics SL (Haese Mathematics)
ISBN 978-1-921972-08-9

Online resources

Google classroom, Khan Academy and Kahoot

Course Outline & Objectives

The content learning during this class will be:

- Class Notes and worksheets – Review of real number system and properties of real number, work on polynomials with one variable, working with inequalities, one variable inequality, quadratic inequality, square root inequality and absolute values equations, absolute value inequality.
- Chapter 2 – Review of function and different type of function, increasing functions decreasing functions, quadratic functions and identity functions. Review the algebraic functions, composite functions and inverse functions.



- Chapter 3 & 4 – Understanding of exponential and logarithmic functions, working with graphing of exponential and logarithmic functions, working with logarithms and antilogarithms, working with exponential equation and logarithmic equation.
- Class notes and worksheets - understanding of analytical geometric. Understand the distance between two point, midpoint, slope of parallel lines and perpendicular lines. Work with linear equations and distance between two points and parallel lines. Work on conic section including circle, parabola, ellipse and hyperbola.

If you have questions about the class or your grade you can email me at:

shiv.ku@assumption.ac.th

Resources

- | | |
|-----------|------------------------------------------------------------------------------------------------------------------------------------------------|
| Required | <ul style="list-style-type: none">• A plastic folder for worksheets.• White School Notebook• Red and blue pen. |
| Suggested | <ul style="list-style-type: none">• Many different colored pens/markers/highlighters• Ruler |

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. Students should be expected to earn their scores. Scores of pass should not be given unless the student has attained sufficient knowledge to earn a passing grade.

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 for a full score of 10 points. Late work without excuse will be deducted at the rate of 10% per day until the maximum possible score is zero. All work must be turned in before the last week of each term. Late work is discouraged.

Grading

This course follows to the Assumption College grading scale:

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



EN30106 M6: Foundation English 6

Teacher Mr. Andrew Neale

Contact EP Teacher Room, 2nd Floor Colombet Bldg.
simon.an@assumption.ac.th

Class Time EP-M6/1 & M6/2: one-two periods a week

Course Description

The final half of this course will focus on preparing students for both entering the world of work and for the Cambridge C1 level examination. We will focus on improving all four skills in English and learn how to appropriately apply this knowledge for different purposes too (SATs, IELTS, etc). Due to the mixed abilities and aspirations identified in the class, some of the focus will vary from one student to the other. I am passionate about supporting students 121, will address areas for improvement accordingly and will happily remain flexible.

Textbooks

Prepare 2nd edition – Student's Book - Cambridge Course book

Prepare 2nd edition – Workbook - Cambridge Course book

Course Outline & Objectives

Week 1 & 2 - Introductions

- Speaking: Describe the school break
- Listening: Pronunciation - difficult phonetic blends
- Writing: *The Holidays*
- Personal development: *Boys, Books & Beliefs* – reading for pleasure

Weeks 3-6 - Prepare Cambridge Unit 8: Life Skills – Digital Literacy

- English in context: Appropriate language use online, fake posts
- Vocabulary: online abbreviations and acronyms, common sayings
- Grammar: Capital letter-use online, real-life English versus academic
- Listening: Practise with voice notes

Week 7 - Reading, reading, reading!

- Academic reading versus reading for pleasure
- Peer review student project: *Perspectives and recommendations*
- Cambridge exam preparation
- Vocabulary: Word count / word bank.

Week 8 - Revision of content / skill development / catch up on missed work

Week 9 - Midterm Exams

Week 10 - Christmas / New Year break

Weeks 11-13 - Achieving Social Equality (Cambridge Prepare, Unit 12)

- Grammar: the present perfect tense
- Vocabulary: Social change and wealth
- Reading: Cambridge Use of English Part 6
- Writing: *'Writing to Present' (life skills)*

Week 14 - Concerns, fears, challenges, and strategies for future success.



- Week 15** – Revision of content / skill development / catch up on missed work
Week 16 – Final Exams

Resources

- Required
- 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 may be given throughout the semester.

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 (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 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 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.

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:

Formative Score	50% or less
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. Remember your commitment on how to be the best student (from semester 1).
2. Have your materials for English on your desk at the beginning of class.
3. Pay attention and listen carefully while taking notes.
4. Always use English during discussions.
5. Do your homework yourself and do not copy.
6. Come see the teacher outside of class time for assistance.
7. Give feedback to, and share ideas with, Mr Andy to help maximize your learning.
8. Always try your best.



EN30212 M6/2B: English for Academic Achievement

Teacher Mr. Andrew Simon Neale

Contact EP Teacher Room, 2nd Floor Colombet Building.
simon.an@assumption.ac.th

Class Time EP M6/2B: four periods a week

Course Description

The final half of this course will focus on preparing students for Cambridge C1 level examination. We will therefore focus on improving all four skills in English, in particular reading, writing, listening and speaking via a range of appropriate topics as specified. Due to the mixed abilities and aspirations identified in the class, the focus may vary from one student to the other; I am passionate about supporting students 121 and will address areas for improvement accordingly.

Textbooks

Prepare 2nd edition – Student's Book - Cambridge Course book

Prepare 2nd edition – Workbook - Cambridge Course book

Course Outline & Objectives

Week 1 & 2 - Introductions

- Writing: Boys, Books & Beliefs (reading habits & perceptions)
- Grammar: Exam mistakes – 121 meeting with teacher
- Speaking: Philosophical reflections
- Listening: Tongue twisters - *write what you hear*

Weeks 3-6 - Prepare Cambridge Unit 3: *When Tomorrow Comes*

- Reading: Exam preparation – gap fill
- Vocabulary: words relating to the future, commonly confused words
- Grammar: Correct verb forms
- Listening: European Space Agency – exam preparation activity
- Language use: Idiomatic expressions

Week 7 - Writing emails

- 'Job application' versus 'Entering a competition' (professional conduct).
- Subject line, email body, paragraph use, telling a story.
- Presentation: Tips & challenges (peer feedback)

Week 8 - Revision of content / Skill development / Catch up on missed work

Week 9 - Midterm Exams

Week 10 - Christmas & New Year break

Weeks 11-13 - Unit 6: *Food for Thought*

- Vocabulary: Food idioms and expressions
- Grammar: Infinitives and gerunds
- Listening: Restaurants, health and habits
- Writing: Essay writing

Week 14 - Next steps (personal determination)

Week 15 – Content revision / skill development / catch up on missed work



Week 16 - Final Exams

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 also be given throughout the semester.

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 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 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.

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:

Formative Score	50% or less
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. Remember your commitment on how to be the best student (from semester 1).
2. Have your materials for English on your desk at the beginning of class.
3. Pay attention and listen carefully while taking notes.
4. Always use English during discussions.
5. Do your homework yourself and do not copy.
6. Come see the teacher outside of class time for assistance.
7. Give feedback to, and share ideas with, Mr Andy to help maximize your learning.
8. Always try your best.



Student Syllabus for: EP6 *English for Life Skills 6*: EN30246

Teacher: Mr. Joshua Bolen (Mr. Bolen)

COURSE DESCRIPTION:

Welcome to English for Life Skills M6! 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.

Learning Contents

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

Resources

- | | |
|-----------|---------------------------------------------------------------------------------|
| Required | <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

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

Evaluation and Assessment

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

Total Score of all 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.



ST30282 B6/2 Integrated Science

Teacher Mr. Michael Dew

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

Class Time EP-M 6/2: Tuesday Period 3, Thursday Period 3 and 4

Credits 1.5 (3 Period /week)

Course Description

This course on Integrated science focuses on the Biogeochemical cycle, Chemistry for living things, Biomolecules, and Polymers. The course offers both a conceptual foundation and qualitative presentation of integrated science. 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 content as a part of this course, which provides some of the major topics in university level health science.

Demonstrations, computer-simulated activities and laboratory sessions 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.

Textbook

-
- *International A Level Integrated Science, Oxford International AQA Examinations.*
- Supplementary:
- *BMAT Past Paper Worked Solutions (2003-2017) 2018*

Course Outline & Objectives

Chapter 1: Chemistry for Living things and The environment

- 3.1 Formation of Petroleum
- 3.2 Process of Natural Gas
- 3.3 Advantages and disadvantages from the use of petroleum

Chapter 2: Polymers

- 4.1 Formation and properties of polymers
- 4.2 Advantages and disadvantages from the formation and use of polymers

Chapter 3: Biogeochemical Cycle

- 1.1 Nitrogen cycle



- 1.2 Carbon cycle
- 1.3 Phosphorus cycle
- 1.4 Oxygen cycle
- 1.5 Water cycle

Chapter 4: Biomolecules

- 2.1 Carbohydrates
- 2.3 Proteins
- 2.4 Lipids

Resources

Required	<ul style="list-style-type: none">• Assumption Notebook (2)• Binder/ folder• Scientific calculator (not a phone-based application)• Ruler
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 dishonesty lower the quality of the education and will not be tolerated. Students involved in any form of academic dishonesty, including any student supplying or allowing the copying to take place, will receive a zero.

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

Behavioral Expectations

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

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



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

- Possess discipline
- Be an AC gentleman
- Eager to learn
- 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:

<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:

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



Recommendations for Success

All students are encouraged to try the following:

1. 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 science and technology 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.



OC30234 Business Case Study

Teacher Mr. Pathomphone Thongchanh

Contact EP Personnel Office, 1st Floor Colombet Building
pathomphone.th@assumption.ac.th

Website <https://classroom.google.com/c/ODA0MDE1NTg2NjA2?cjc=cla36yib>

Class Time Tuesday, Period 5, 13:00 - 13:50 & Wednesday, Period 3, 10:20 - 11:10

Credits 0.5

Course Description

This course focuses on the study and practice of analyzing business case studies and planning solutions using various business strategies. In today's world, everything changes rapidly, and business is no exception—strategies must constantly adapt to remain competitive. Creating and analyzing a Business Case is central to this process, serving as the heart of strategic planning for different types of ventures.

A Business Case not only supports effective decision-making but also provides learners with a holistic perspective of business operations, helping them grow their abilities as future professionals. Through this course, students will develop critical thinking, problem-solving, practical execution, teamwork, and attitudinal skills.

These competencies foster stronger communication, analytical ability, life skills, and the effective use of technology. Students will also strengthen their capacity for lifelong learning and innovation by cultivating creativity, awareness of innovation, critical thinking, and problem-solving.

The course emphasizes effective communication, collaboration, and information literacy. Students will learn to evaluate and update information from media and technology, remain aware of digital trends, and develop smart communication strategies. In addition, the course builds essential life and career skills, such as flexibility, adaptability, initiative, self-care, and social engagement. Learners will be encouraged to uphold integrity, discipline, curiosity, perseverance, and social responsibility.

Learning Outcome:

Students will be able to—

1. Demonstrate an understanding of the principles, methods, and processes of solving business problems through business strategy development.
2. Acquire skills in designing business problem-solving approaches and presenting strategic business solutions.



3. Develop desirable characteristics such as attentiveness, honesty, creativity, and a positive attitude toward the profession.

Course Outline & Objectives

Business Case Study

Gain knowledge and understanding of:

- The structure and purpose of business case studies
- Business strategy formulation and evaluation
- Analytical and critical thinking in business contexts
- Team-based problem-solving and presentation skills
- Application of digital tools for research and communication

Topics of Instruction may include (subject to time constraints):

1. Introduction to Business Case Studies
2. Understanding Case Study Structure and Objectives
3. Identifying Business Problems and Key Stakeholders
4. Analyzing Market and Industry Context
5. SWOT and PESTEL Analysis in Case Studies
6. Understanding Financial Indicators and Business Metrics
7. Root Cause Analysis and Problem Identification
8. Brainstorming and Creativity in Business Solutions
9. Strategic Thinking and Decision-Making Models
10. Business Model Canvas and Value Proposition
11. Case Study Analysis Practice (Sample 1)
12. Case Study Analysis Practice (Sample 2)
13. Designing Effective Business Solutions
14. Communication and Persuasion in Business Presentations
15. Data Visualization and Report Writing Skills
16. Ethics and Integrity in Business Decision-Making
17. Digital Tools for Business Analysis and Research
18. Team Case Study Project – Planning and Roles
19. Case Study Project – Presentation & Feedback Session
20. Reflection, Review, and Future Applications

Resources

- | | |
|------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Required | <ul style="list-style-type: none">• A pink A.C. notebook (minimum A4 size)• Basic stationary (pen, pencil, eraser, ruler, sharpener etc)• AC Portfolio A4 with clear front cover |
| Suggested | <ul style="list-style-type: none">• Various colored pens / markers / highlighters / pencils• Laptop or tablet (i.e. iPad)• Smart phones for research in class |
| Occasional | <ul style="list-style-type: none">• USB thumb drives to save typed work onto• Materials potentially needed for special presentation projects <p><i>The above will be requested a week in advance of use</i></p> |



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 (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 eager to learn
- Be an AC gentleman
- Be dedicated to work
- Be honest and upright
- 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 check Google Classroom for the content of the lectures and the in-class assignments and homework and project assignments.

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 the Assumption College grading scale:

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

Evaluation and Assessment

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

Behavior & Participation	10%	Affective Domain
Home Work / Assignments	30%	Formative
Formative 1 (before midterm)	10%	Formative
Formative 2 (before final)	10%	Formative
		50% Formative
Midterm Assignment/Project/Presentation	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 Google Classroom for assignments and course materials and grades



ST30263 Database Management

Teacher Mr. Dave

Contact EP Teacher Room, 2nd Floor Colombet Bldg.

Class Time EP-6/2: Monday

Credits 0.5

Course Description

Study information technology and communication knowledge on the topics of communication, data exploration via the internet, and ethics in internet use, data management, types of data, files, database system, information system, data processing into information, and software for database management, file structure and file management, compositions of files, types of database, database system in application programs, database system, database design, tables, queries, forms, reports, and macros. Use information technology skills and processes which are data exploration, explanation, demonstration and analysis, discussion, construction of database system, group skills and process to create knowledge and understanding, thinking ability, exploring ability, ability to use technology, learning ability, communicative ability, systematic thinking ability, ability to use living skills and daily life with honesty, diligence, and endeavor.

Course Outline & Objectives

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

Unit 1

Information System [Indicators 1, 2]

- Data, information, and information technology
- Data processing into information
- Software for database management system

Unit 2

File structure and file management [Indicators 2, 3,]

- Information system Structures
- File Systems and Structures

Unit 3 [Indicators 1, 2, 3, 4]

Database System

- Analyze/design database
- Construction of database

Resources

- Required
- EP Computer Lab



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. 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
- Eager to learn
- Be self-sufficient
- Dedicated to work
- Proud to be Thai
- Have a sense of public consciousness
- Be an AC gentleman
- 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:

<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:

Homework/Classwork	30%
Quiz	20%
Coursework	20%
Behavior	10% (program mandated)
Midterm (Summative) Exam	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 textbook. Oftentimes, reading the text once is not enough even for native English speakers. You may need to read the material multiple times to understand. By reading along at home with the lessons taught at school (typically only a few pages per night), students will be able to responsibly manage the material and gain the most from the course.
2. Search online, in either Thai or English, if you don't understand a topic discussed in class or simply to get a better understanding of the topic.
3. Do **not** copy your classmates work; struggle through and do the work on your own! This is how you learn!
4. Come see the teacher outside of class time for assistance.
5. Do 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.
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.