



MA22101 Foundation Mathematics 3

Teacher	Mrs. Suphak Keereepart
Contact	EP Teacher Room, 1 st Floor Colombet Bldg. skeereepart@gmail.com
Class Time	EP-M2/1: Tues, period 2; Thurs, period 1; Fri, period 2 EP-M2/2: Mon, period 7; Tues, period 7; Wed, period 1 EP-M2/3: Mon, period 6; Wed, period 4; Thurs, period 4
Credits	1.5

Course Description

This foundation mathematics course focuses on the topics within algebra and geometry. These topics include powers, real numbers, system of linear equations, polynomials, factorization of polynomials, congruence and parallel lines. 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

Mastering Mathematics 2A, Aksorn Charoen Taet 2020
ISBN- 8858649136657 & ISBN- 8858649136664

New Mathematics Counts, 2nd Edition, Singapore 2007
ISBN- 978-981-01-6418-8

Course Outline & Objectives

Powers (*Indicator MA 1.1, S.2/1*)

- ✓ Power with integer exponents
- ✓ Applying knowledge about powers in problem solving

Real numbers (*Indicator MA 1.1, S.2/2*)

- ✓ Real numbers
- ✓ Rational and irrational numbers
- ✓ A square root and a cube root of rational number
- ✓ Applying knowledge learned about real numbers



Polynomials (*Indicator MA 1.2, S.2/1*)

- ✓ Polynomials
- ✓ Adding and subtracting polynomials
- ✓ Multiplying polynomials
- ✓ Dividing a polynomial by a monomial that has polynomial as the result of division.

End of Midterm Exam Content – Start of Final Exam Content
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Congruence (*Indicator MA 2.2 S.2/4*)

- ✓ Congruence of geometric figures
- ✓ Congruence of triangle
- ✓ Application

Parallel lines (*Indicator MA 2.2 S.2/2*)

- ✓ Definition and properties of parallel lines
- ✓ Triangle and parallel lines
- ✓ Reasoning and solving problems by using properties of parallel lines and congruence of triangles.

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

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:

$Final\ Score \geq 80\%$	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:

Online	20%
Projects	10%
Homework/Classwork	20%
Behaviour	10% (program mandated)
Midterm Exam	20% (program mandated)
Final Exam	20% (program mandated)



Recommendations for Success

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

1. Read the course textbook. You may need to read the material multiple times to understand. By reading along at home with the lessons taught at school (typically only a few pages per night), students will be able to responsibly manage the material and gain the most from the course.
2. Complete all forms of assessment and submit all homework and assignments.
3. Search online, in either Thai or English, if you 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; try to struggle through on your own. This will help you learn.
5. Come see the teacher outside of class time for assistance.
6. Do more than just the bare minimum; do the additional problems in the textbook and the review questions at the end of the chapter and check your answers.
7. Study the notes and vocabulary at least a few minutes every day.



MA20203 Universal Mathematics 3

Teacher Mr. Robert John Sylvester III

Contact EP Teacher Room, 2nd Floor Colombet Bldg.
epac.robertsylvester@gmail.com

Class Time EP-M2/1: Mon, period 6; Fri, period 6
EP-M2/2: Tues, period 1; Wed, period 5
EP-M2/3: Mon, period 3; Tues, period 2

Credits 1.0

Course Description

This universal mathematics course focuses on the topics of angles, polygons and handling data. The course enables students to use mathematical skills and processes which are problem-solving, reasoning, communications, mathematical implication and presentation, mathematical connections, and creative thinking along with having systematic work, disciplines, responsibilities, caution, self-confidence, and positive attitude toward mathematics.

Textbook

Secondary Mathematics 2A, Aksorn Charoen Taet 2020
ISBN- 8858649141064

Course Outline & Objectives

Angles and Polygons

- Angles and lines
- Triangles and quadrilaterals
- Symmetry
- Congruence and similarity
- Polygon Angles

End of Midterm Exam Content – Start of Final Exam Content
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Handling Data

- Organising data
- Representing data 1
- Representing data 2
- Averages and spread

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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*:

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- Possess discipline
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- Dedicated to work
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Attendance & Tardiness

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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

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$60\% \leq Final\ Score < 65\%$	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:

Online	20%
Projects	10%
Homework/Classwork	20%
Behaviour	10% (program mandated)
Midterm Exam	20% (program mandated)
Final Exam	20% (program mandated)

Recommendations for Success

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1. Read the course textbook. You may need to read the material multiple times to understand. By reading along at home with the lessons taught at school (typically only a few pages per night), students will be able to responsibly manage the material and gain the most from the course.
2. Complete all forms of assessment and submit all homework and assignments.
3. Search online, in either Thai or English, if you 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; try to struggle through on your own. This will help you learn.
5. Come see the teacher outside of class time for assistance.
6. Do more than just the bare minimum; do the additional problems in the textbook and the review questions at the end of the chapter and check your answers.
7. Study the notes and vocabulary at least a few minutes every day.



HP22101 Foundation Health Studies 3

Teacher Mr. Brian Mallon Health & Physical Education.

Contact 2nd Floor Colombet Bldg.
bmal1332@gmail.com

Credits 0.5

Course Description

Students will study physical, mental, emotional, social, and intellectual changes in adolescents, factors affecting physical, mental, emotional, social, and intellectual growth and development, genetics, environment, nurture, factors affecting sexual attitudes, family, culture, friends, media, problems and effects from having sex in school age, sexual transmitted diseases, AIDS, and unwanted pregnancy, importance of gender equality and proper demeanor, sexual problems, guidelines for solving sexual problems. Use the process of establishing knowledge and understanding, practical skills, problem-solving skills, decision-making skills, and value to create knowledge, understanding, and apply the knowledge to real-life situations with honesty and studiousness. Students will learn the importance of well-being of a person and family and strategies to avoid accidents, drugs and other social issues that can influence their lives in a negative way. Students will identify ways to prevent problems of violence and demonstrate life-rescues in different situations.

Textbook

Health & Physical Education 2 Book 1

Think Big Plus

Course Outline & Objectives

Indicators

1. Choose health care service reasonably.
2. Analyze effects of technology use on health.
3. Analyze medical advancements affecting health.
4. Analyze the relationship between balance of physical and mental health.
5. Explain fundamental symptoms of mental health patients.
6. Provide self-practiced methods for emotional and stress management.
7. Develop personal physical fitness in accordance with specific criteria.
8. Identify methods, factors, and sources for helping and rehabilitating drug-addicted persons.
9. Explain methods to avoid risky behaviors and situations.
10. Use life skills to protect oneself and avoid critical situations leading to dangers.



HEALTH COMPONENT

Growth and Development of Various Ages [Indicators 1, 2, 3 and 5]

- Growth and Development of School-Age Children
- Definition and Importance of School-Age children
- Characteristics of Physical Growth of School- Age Children
- Development of School-Age Children
- Factors Affecting Growth and Development of School-Age Children
- Growth and Development of Adolescents
- Definition and Importance of Adolescents
- Characteristics of Physical Growth of Adolescents
- Development of Adolescents

Life and Family [Indicators 1,2,3,5]

- Adolescents and Adjustment
- Definition and Importance of Adolescents
- Adjustment of Adolescents to Changes from Physical and Social Development
- Adolescents and Decision-Making Skills to Prevent Problems from Improper Sexual Behavior
- Definition and Importance of Decision-Making Skills to Prevent Problems from Improper Sexual Behavior

Resources

- Pink resource booklet for note taking (Reminder that any handouts must be stapled or glued into the pink resource)
- Suggested
- Fitness and sport activities during lunch break each day

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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 (in PE uniform) and to actively participate throughout the lesson until class is dismissed.



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

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

Attendance & Tardiness

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

Grading

This course follows to the Assumption College grading scale:

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

Evaluation and Assessment

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

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



Recommendations for Success

1. Portfolio should be always handed in.
2. Worksheets should be complete and handed in on time.
3. Notebook work must be neatly done and handed in on time.
4. Behavior will be evaluated during every period.
5. Homework should be handed in on time.
6. Classwork during each period must be handed in for assessment.



EN22101 **Foundation English**
Teacher Mr. Nathan Hunter
Contact EP Teacher Room, 3rd Floor Colombet Bldg.
 Nathanhunterm1m2english@yahoo.com;
Credits 1.5

Course Description

The Foundation English Course focuses on the skills of reading, writing with correct grammar. In semester 2 M2 students will continue using the two books from the first semester. By the end of the year the students should also be able to write a a short essay with more than one paragraph using appropriate vocabulary along with various types of sentences. Each chapter focuses on one particular topic and applies writing skills towards this topic. Each week will have a specific grammar skill to focus on Students will be given assignments from classwork exercises in the student book to doing homework in the workbook. A midterm will be given on week 10 of the course and a final exam on the 20th week. All classes will use Schoology to keep track of assignments and grades.

A second book called; “Strategic Reading 2” will used. This book will aim at improving students reading ability and developing skills to help in different areas of study. We will include videos, vocabulary, and group work in using this book. Assignments for this book will usually be in the form of a KWL chart done in class and also on exercises text itself with a few assignments in the pink notebook

Students will have a novel to read and book report to do. The novel we are reading is ‘the Shadow Cypher.

TEXT BOOK:

“*Th!nk: Better Learning 3*” Student Book Cambridge
ISBN-13:

“*Th!nk: Better Learning 3,*” Workbook, Cambridge
ISBN- 978-1-108-78565-5

“The Shadow CIPHER” Laura Ruby
ISBN: 978-0-06-230694-4

Resources

- | | |
|-----------|---|
| Required | <ul style="list-style-type: none">• 2 notebooks. (Pink and White)• Dictionary (English to English, not a translating one)• Access to the internet for quizlet, edmodo, and emails for grades• Longman’s Writing Series Book 2• Strategic Reading Book 2 (Green Color)• A clear folder for English to hold handouts and quizzes to study. |
| 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. Students will be given points for having the class materials ready for class on their desks.

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. Students' scores will also be calculated weekly in giving points for behavior on occasion.

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 class work will be assigned often and must be submitted on or before the due date for a score of 20 % of the final grade. 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> ≥ 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:

Reading Ability	5%
Writing	5%
Grammar	5%
Worksheets/Exercises	15%
Tests/Quizzes	20%
Behavior (Affective Domain)	10%
Midterm (Summative) Exam	20% (program mandated)
Final Exam	20%

Weeks:	Units and Chapters	Skills focus:	Reading:	Assignments:	Quizzes:
1-2	Think (SB): Unit 1 Shadow Cipher: Chapter 1 Think Unit 1: "A List" No Chapter in Think Books	Verb Tense Review: Present Simple, Perfect, Continuous, Perfect Continuous Reading Verb Tense Review: Past Tenses: Past Simple, Past Perfect, Past Continuous, Past Perfect Continuous	N/A Shadow Cipher p. 1- 10, 11-20 Think (SB) p 16-17 N/A	Think (SB) p. 12; (WB) p. 12	Schoology Quiz Schoology Quiz Schoology Quiz



3-4	No Unit. Think (SB) Unit 5 Shadow Cipher: Chapter 1: No Unit	Review of Clauses/Sentences Grammar Reading Writing: Identifying Supporting Sentences	(N/A) Shadow Cipher: p. 21-30, 31- 40 No Reading	Unit 5 (SB) p. 50, 53; (WB) p. 46, p. 47 Writing a Paragraph	Schoology Quiz Schoology Quiz Schoology Quiz
5-6	Think 3 (SB): Unit 2: A Hard Life Think (SB): Unit 2 Shadow Cipher	Reading Reading/Grammar Reading	Think (SB) Unit 2: p. 20-2 Think (SB) Unit 2: p. 22, (WB) p. 18 Shadow Cipher: P. 41-50, p. 51-60		Schoology Quiz Schoology Quiz
Week 7- 8	Think 3 (SB) Unit 2 Shadow Cipher	Listening	 Shadow Cipher: 61- 70, 71-80	Think 3 (SB) page. 23	Schoology Quiz

9-10	Review for the Midterm	Review		N/A	N/A
Week 10	Midterm Exams				



11-12	Think 3: Unit 3, “What’s in a Name?” No Unit No Unit Shadow Cipher	Grammar/Reading: Ought, have to, must Grammar Grammar: Quantifiers	NA Review of FANBOYS, ‘or, nor’ Class Notes Shadow Cipher: p. 81-90, p. 91-100	Think 3: Unit 4 (SB) p. 32, 35 (WB) p. 28, p. 29	Schoology Quiz Schoology Quiz
Week 13-14	Think 3 : Unit 4: “What Would you Do?” Shadow Cipher	Reading/Grammar: Conditionals	Think 3: Unit 4 p. 39-40 Shadow Cipher: p. 101-110, p. 11-120	Think 3: (SB) Unit 4 p. 40, p. 41, 42 (WB) p. 36, 37	Schoology Quiz
15-16	Think 3: Unit 5 “Story Telling” Think 3: Unit 5 Shadow Cipher	Grammar, Reading Relative Clauses Reading Reading	Think 3: Unit 5 (SB) p. 49 Think 3, Unit 5 (SB): p. 52 “THERE ARE ALWAYS TWO SIDES TO AN ARGUMENT” Shadow Cipher: p. 121-130, 131-140	Think 3: Unit 5 p. 53 (WB) p. 46, p. 47 Writing a Paragraph.	Schoology Quiz Schoology Quiz
17-19	Think Unit 6: “That’s Impossible” Think Unit 6: “That’s Impossible”	Reading/Grammar Present and past Passive Reading: Listening	Think Unit 6, (SB) 56-57 Think Unit 6 (SB) “Big Questions, Bigger Answers” Think Unit 6: (SB) p 62 “The Mind Map” Shadow Cipher: p. 141-150, 151-160	Think 3 Unit 6: (SB) p. 56-61, (WB) p. 54, 56 Think 3 Unit 6, (SB) p. 60, 61	Schoology Quiz Schoology Quiz



THE ENGLISH PROGRAM AT ASSUMPTION COLLEGE
Course Syllabus – Semester 1/2022

	Shadow Cipher				
	Week 19: Review for the Final Semester Exam				
Week 20	Final Exam Week				



EN20215 M2 Supplemental English 15

Teacher Mr. Paul Griffiths

Contact EP Teacher Room, 2nd Floor Colombet Bldg.
paul_v_griffiths@yahoo.co.uk

Class Time EP-M2 (1-3) Three Periods a Week for Each Class

Credits 1.5

Course Description

This class will focus on improving skills in English, in particular reading, writing, listening and speaking. One of the primary goals of the course is to prepare students for the Cambridge PET English exam (Which they will sit during Semester 2). In order to perform well in the PET test, students will need to improve their grammar and expand their vocabulary.

Textbooks

Complete Preliminary 2nd edition – Student’s Book - Cambridge Course book

Complete Preliminary 2nd edition - Workbook - Cambridge Course book

*NOTE: Week numbers in the following outline may change due to school schedule changes.

Course Outline & Objectives

Week 1 - Introduction to course and the PET exam. Teacher quiz

Week 2 & 3 – Complete Preliminary Unit 1 – My Life & Home

- Vocabulary – House and Home
- Grammar – Prepositions of Time
- PET Reading – Understanding Vocabulary (*PET part 5*)
- PET Speaking -Introduction Language (*PET part 1*)
- PET Writing – Writing a reply - Planning

Week 4 Writing skills (writing an email)

Week 5 & 6 – Complete Preliminary Unit 2 – Making Choices

- Vocabulary – Life Choices
- Grammar – Past Simple & Past Continuous
- PET Reading – Detailed Understanding of Words and Sentences (*PET part 6*)
- PET Writing – Writing an Article. Correct Punctuation

Week 7 & 8 - Complete Preliminary Unit 3 – Having Fun

- Vocabulary – Leisure Activities and Hobbies
- Grammar – Verbs followed by ‘ing’ and ‘to’
- PET Reading – Reading for Detailed Understanding (*PET part 3*)
- PET Writing – Writing a story

Week 9 – Revision of Skills / Catch up on missed classes

Week 10 – Midterm Exams

Week 11 & 12 - Complete Preliminary Unit 4 – On Holiday

- Vocabulary – Holiday Activities
- Grammar – Adjectives – gradable & non-gradable, comparative and superlative forms



- PET Reading – Identifying the purposes of text (*PET part 1*)
- PET Speaking - Recommending and reaching a decision (*PET part 3*)

Week 13 - Writing skills (All parts)

Week 14 & 15 - Complete Preliminary Unit 5 – Different Feelings

- Vocabulary – Types of feeling
- Grammar – Modal verbs
- PET Reading – Identifying topics in a paragraph (*PET part 4*)
- PET Writing – Writing a story – using adjectives to express feelings

Week 16 & 17 - Complete Preliminary Unit 6 – That’s Entertainment

- Vocabulary – Types of entertainment
- Grammar – Present Perfect with ‘just’, ‘already’ and ‘yet’
- PET Reading – Selecting Matching Events (*PET part 2*)
- PET Writing – Writing an article – using the correct style.

Week 18 - Speaking skills (All parts)

Week 19 – Revision of Skills and content / Catch up on missed classes

Week 20 – 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 will be given throughout the semester.

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worksheets, English Folder, writing utensils, etc.) and to actively participate throughout the lesson until class is dismissed.

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

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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:

<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:

Formative Score	50%
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. Have your materials for English on your desk at the beginning of class.
2. Pay attention and listen carefully while taking notes.
3. Always use English during discussions.
4. Do your homework yourself and do not copy.
5. Come see the teacher outside of class time for assistance.
6. Always do your best.



ST22101 Foundation Science 3

Teacher Mr. Derrick Thompson (Mr. Derrick)

Contact EP Science Lab Office, 2nd Floor Colombet Bldg.
thompsonderrick30@gmail.com

Credits 1.5

Course Description

This is a comprehensive course with a focus on problem solving and active learning. Students are presented with information and then given problems to solve. These problems are usually inspired by real-life situations and careful thought is put into the selection of activities so that they have relevance to both students' lives. Critical thinking skills are emphasized and students are encouraged to see the 'Big Picture' and apply the information that they learn to solve problems that face humanity.

Course Outline & Objectives

1. Human Body System Overview

- 1.1 Body Organization - From Cells to Organism
- 1.2 Respiratory System
- 1.3 Circulatory System
- 1.4 Excretory System
- 1.5 Reproductive System
- 1.6 Nervous System

2. Solutions

- 2.1 Components of a Solution
- 2.2 Concentration of Solutions

3. Substance Separation

- 3.1 Crystallization
- 3.2 Evaporation
- 3.3 Paper Chromatography
- 3.4 Solvent Extraction
- 3.5 Distillation

End of Midterm Exam Content – Start of Final Exam Content

4. Forces and Motion

- 4.1 Forces in the Same Plane and Finding the Resultant Force (Net Force)
- 4.2 Motion
 - Scalar and Vector Quantities
 - Distance and Displacement
 - Speed and Velocity
- 4.3 Frictional Force
- 4.4 The Moment of a Force
- 4.5 Forces Acting on an Object by a Fluid
 - Bouyant Force
 - Sinking Vs Floating
 - Liquid Pressure



4.6 Forces Acting on an Object by Natural Fields

- Magnetic Fields
- Electric Fields
- Gravitational Fields

Resources

- | | |
|-----------|---|
| Required | <ul style="list-style-type: none">• At least 1 notebook (white)• Folder for Science only (to keep handouts, etc.)• Ruler• Glue stick and stapler |
| Suggested | <ul style="list-style-type: none">• Many different colored pencils/highlighters• A Matthayom-level science practice book in Thai |

Academic Integrity Policy

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

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

Behavioral Expectations

For the sake of all the members of the class, students are expected to respect themselves, their classmates, the teacher, and the facilities. Students must accept responsibility for themselves and their actions. Students are expected to be ready at the start of every class (2 notebooks, textbook, 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. 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 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 and Labwork	20%
Notebooks	10%
Behavior/Participation (Affective Domain)	10%
Quizzes	20%
Midterm Project	20%
Final Project	20%

Recommendations for Success

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

1. Read the textbook and websites that the teacher recommends.
2. When studying, learning in the classroom and doing homework, always try to think about how the topic we are learning fits into the ‘Big Picture.’
3. Ask questions when you don’t understand. If you don’t understand something, there are likely other students who don’t understand as well. If you ask, then you will be helping those students as well. If you feel more confident asking a question in private, then you may do so.
4. **Do not copy** any work from anyone. This will damage your potential for thinking and being creative. It will also get you a zero. Don’t let other students copy your work either, as it will encourage your friends to be lazy and will harm them in the future.



ST20203 Universal Science 3

Teacher Mr. Derrick Thompson (Mr. Derrick)

Contact EP Science Lab Office, 2nd Floor Colombet Bldg.
thompsonderrick30@gmail.com

Credits 1.0

Course Description

This is a mostly hands-on course with a focus on problem solving and active learning. Students are presented with information and then given problems to solve. These problems are usually inspired by real-life situations and careful thought is put into the selection of activities so that they have relevance to both students' lives. Critical thinking skills are emphasized and students are encouraged to see the 'Big Picture' and apply the information that they learn to solve problems that face humanity.

Course Outline & Objectives

1. The Digestive System

- 1.1 The Process of Nutrition
- 1.2 Metabolism as a combination of Catabolism and Anabolism
- 1.2 Digestion in Humans

2. The Respiratory and Excretory Systems

- 2.1 Breathing and Respiration
- 2.2 Exchange of Gases
- 2.3 Respiration in Humans
- 2.4 Mechanism of Breathing
- 2.5 Excretion in Humans

3. The Circulatory System

- 3.1 The Circulatory System in Humans

End of Midterm Exam Content – Start of Final Exam Content

4. The Reproductive System

- 4.1 Puberty
- 4.2 The Male Reproductive System
- 4.3 The Female Reproductive System
- 4.4 Fertilization
- 4.5 Methods of Birth Control
- 4.6 Sexually Transmitted Infections (STIs)

5. The Nervous System

- 5.1 Functions of the Nervous System
- 5.2 The Human Nervous System
- 5.3 Coordination and Control



6. Atoms, Ions and Molecules

- 6.1 Atoms
- 6.2 Atomic Structure
- 6.3 From Atoms to Molecules
- 6.4 Chemical Formulae
- 6.5 Distribution of Electrons in Atoms
- 6.6 Combining Atoms
- 6.7 Physical and Chemical Changes

Resources

- | | |
|-----------|---|
| Required | <ul style="list-style-type: none">• At least 1 notebook (white or pink)• Folder for Science only (to keep handouts, etc.)• Ruler• Glue stick and stapler |
| Suggested | <ul style="list-style-type: none">• Many different colored pencils/highlighters• A Matthayom-level science practice book in Thai |

Academic Integrity Policy

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

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

Behavioral Expectations

For the sake of all the members of the class, students are expected to respect themselves, their classmates, the teacher, and the facilities. Students must accept responsibility for themselves and their actions. Students are expected to be ready at the start of every class (2 notebooks, textbook, 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. 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 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:

Homework and Labwork	20%
Notebooks	10%
Behavior/Participation (Affective Domain)	10%
Quizzes	20%
Midterm Project	20%
Final Project	20%

Recommendations for Success

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

1. Read the textbook and websites that the teacher recommends.
2. When studying, learning in the classroom and doing homework, always try to think about how the topic we are learning fits into the ‘Big Picture.’
3. Ask questions when you don’t understand. If you don’t understand something, there are likely other students who don’t understand as well. If you ask, then you will be helping those students as well. If you feel more confident asking a question in private, then you may do so.
4. **Do not copy** any work from anyone. This will damage your potential for thinking and being creative. It will also get you a zero. Don’t let other students copy your work either, as it will encourage your friends to be lazy and will harm them in the future.



OC22101 Foundation Occupational Works 3

Teacher Dr. Hermann Gruenwald

Contact EP Teacher Room, 2nd Floor Colombet Building
DrHermann365@gmail.com

Website <https://app.schoology.com/course/6731181288/materials>
<https://app.schoology.com/course/6731167469/materials>
<https://app.schoology.com/course/6731179041/materials>

Text Book Thrakhupt, V. (2017). Occupations and Technology Mathayomsuksa 2
Institute of Academic Development (IAD), ISBN 8 854515 468297

Class Time M2/1 Wednesday 13:00-13:50
M2/2 Monday 12:10-13:00
M2/3 Monday 13:00-13:50

Credits 0.5

Course Description

The Occupational Works course continues in M2 with an introduction to basic housekeeping skills and how to maintain, decorate and care for the interior and exterior of the home. The beverages unit concerns making wise choices for consumption and students will gain practical experience in making healthy and impressive alternatives to commercially available drinks. Students will go on to learn about and explore making craftworks from accessible materials before practicing their design and craft skills to produce a creative item. Finally, students will explore the topic of raising animals and caring appropriately for pets in the home.

The goals of the Occupational Works subject are to:

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

Course Outline & Objectives

Unit 1: Housekeeping (Indicator 1)

- Learn housekeeping skills.
- Identify parts of a house.
- Recognize the principles of maintaining the decoration of the interior and exterior of the house, including the garden.

Unit 2: Beverages (Indicators 2, 3)



- Understand general knowledge about drinks; the negative health effects of certain kinds (sweet sodas, alcohol) and the positive effects of others (water, fruit juices).
- Discuss how to choose drinks wisely and produce a display to warn others of sugar consumption.
- Observe the processes of making, decorating and serving of fun and healthy drinks, and then make your own.

Unit 3: Making crafts from materials found in school or locally (*Indicators 1, 2, 3*)

- Learn general knowledge about principles and procedures for making craftwork.
- Identify benefits and significance of using locally found materials to produce crafts.
- View examples of crafts, then design and present your own ideas for a project.
- Produce a craftwork that accomplishes the brief.

Unit 4: Animal husbandry (*Indicator 1*)

- Know methods of raising agricultural animals and express opinions about them.
- Research and present in groups various aspects of raising pets at home such as feeding, exercising, providing comfort and compassion.

Resources

Required	<ul style="list-style-type: none">• AC Three Ring Binder A4 with clear pocket and blank paper• Basic stationary (pen, pencil, eraser, ruler, sharpener etc.)• Extra stationary (glue stick, stapler, tape, liquid paper etc.)
Suggested	<ul style="list-style-type: none">• Various colored pens / markers / highlighters / pencils
Occasional	<ul style="list-style-type: none">• Drinks ingredients, decorations and glassware• Craftwork materials or items <p><i>The above will be requested a week in advance of use</i></p>

Academic Integrity Policy

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

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

Attendance & Tardiness

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

Homework & Classwork

Homework and classwork 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 20% less marks for each week they are late. All missed assignments will receive a zero and will dramatically reduce the averaged classwork and homework scores of the individual.

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:

Behavior & Participation	10%	Affective Domain
STEM	10%	Formative
Class Work	20%	Formative
Home Work	20%	Formative
		50% Formative
Midterm Exam	20 %	Exams
Final Exam	20%	Exams



Recommendations for Success

1. Bring all the materials that are needed to complete projects on the day of class
2. Be creative and work hard
3. Don't be afraid to experiment
4. Plan projects carefully
5. Keep your sketchbook tidy, attractive, and up-to-date
6. Do not forget about assignments or to catch up on missed work
7. Check schoology frequently for assignments and grades



ST22103 Technology and Computing Science 2

Teacher Mr. Dave Thomas

Contact EP Teacher Room, 2nd Floor Colombet Bldg.

Credits 0.5

Course Description

Further study into intermediate level of knowledge of robots and robotics. Student centered learning using a STEM framework to create mobile robots and automatic mechanical systems. Explore how the mechanics of robots work and can be developed. Deeper understanding of the use of and development of international standard pseudo-code and control flow charts in program planning stage. Additional study into current effects of automation. Development of analytical and technological processes to create knowledge and understanding, communicative ability, thinking ability, ability to use technology and apply the knowledge to real-life situations with morality, ethics, endeavor, and studiousness.

Course Outline & Objectives

Indicators [1,2,3,4,5]

Topics include:

Roles and Operation of Robots [Indicator 1, 2]

- Numbering systems
- Boolean logic
- Algorithms to aid problem solving

Creation and Development [Indicator 3,4,5]

- Advance constructions in robotics
- Robotic appendages
- Sensors: acting on and reacting to the environment

Programming [Indicator 1,3,4,5]

- Intermediate level programming
- Variables-use in programming
- Advancement of the concept of planning to program (pseudo-code and control flow, Logical systems)

Resources

- | | |
|----------|--|
| Required | <ul style="list-style-type: none">• EP Computer Lab• Robots |
|----------|--|

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. 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:

STEM	10%
Homework/Classwork	10%
Quiz	10%
Coursework	20%
Behavior	10% (program mandated)
Midterm Exam/Project	20% (program mandated)
Final Exam	20% (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 classmate's work; struggle through and do the work on your own! This is how you learn!
4. Come see the teacher outside of class time for assistance.
5. 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.



ST20253 & ST20254 Computer for Education 3 & 4

Teacher	Mr. Matt Harris
Contact	Location: 5th Floor Computer Lab
Class Time	EP-M 2/1: Wednesday 9:20 – 11:10 EP-M 2/2: Tuesday 12:10 – 1:50
Credits	1.0

Course Description

This course is designed to provide students with fundamental programming skills and an introduction to the semantics of the HTML programming language. The course will focus on elementary computer science principles, basic, intermediate and applications of HTML.

Students will build a knowledge about computer science, the HTML programming language, A thorough exploration of the features in HTML programming language will be conducted. Learning about the different attributes and tags and how they are applied to create web documents and web pages. Using notepad and learning how to use Adobe Dreamweaver. An introduction into CSS (cascading style sheets) which can be applied to HTML. Students will be introduced to principles of computer science such as program design, abstraction, and performance. Students will apply the knowledge they have learnt to create a landing page or a multiple page website.

Course Outline & Objectives

Topics include: [Indicator 1,2]

Computer for Project 1 & 2 [Indicator 1, 2]

Programming
Week 1-2: Intro, My profiles doc/ My idol presentation Programming languages, Algorithms, Data types
Week 2-4: HTML basics 101, attributes, tags and elements (functions)
Week 5-7: Adobe Dreamweaver, web projects
Midterm Exam (Week 8 and 9)
Week 10-13: HTML & CSS
Week 14-15: Program design
Final Exam (Week 16)

Resources

Required	<ul style="list-style-type: none"> • EP Computer Lab
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Academic Integrity Policy

Students are expected to adhere to the Assumption College student handbook. There is to be no plagiarism, no copying, and no cheating of any kind. These and any other acts of academic dishonestly lower the quality of the education and will not be tolerated. Students



involved in any form of academic dishonesty, including any student supplying or allowing the copying to take place, will receive a zero.

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

Behavioral Expectations

For the sake of all the members of the class, students are expected to respect themselves, their classmates, the teacher, and the facilities. Students must accept responsibility for themselves and their actions. 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
$75\% \leq$ <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:

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 classmate's work; struggle through and do the work on your own! This is how you learn!
4. Come see the teacher outside of class time for assistance.
5. 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.



MA20223 Supplemental Mathematics 3

Teacher Mr. Keerthi Prabhakar

Contact EP Teacher Room, 2nd Floor Colombet Bldg.
epackeerthi@gmail.com

Class Time EP-M2/1: Mon, period 7
EP-M2/2: Mon, period 3
EP-M2/3: Mon, period 2

Credits 0.5

Course Description

Polynomial Factorization is an essential topic in algebra that unravels the mysteries hidden within algebraic expressions. This comprehensive course explores various factorization techniques for polynomials, empowering students with the skills to simplify complex equations, solve problems efficiently, and unlock the true potential of algebraic manipulation. The desired characteristics include 1) Love for their country, their King, and faith in their religion; 2) honesty and uprightness; 3) Possess discipline; 4) Eager to learn 5) Be self-sufficient 6) Dedicated to work 7) Proud to be Thai 8) Have a sense of public consciousness.

Textbook / Worksheets

Mathematics for the International Student: Mathematics SL, 3rd Edition

Teacher will also provide handouts

Course Outline & Objectives

Unit	Topic
1	Polynomial factorization 1. Factorization of polynomials by using the distributive property 2. Factorization of quadratic polynomials in one variable 3. Factorization of polynomials, perfect squares 4. Factorization of polynomials, the difference of squares
2	Polynomial fractions 1. Polynomial fractions 2. Multiplication and division of polynomial fractions 3. Addition and subtraction of polynomial fractions 4. Solving equations with polynomial fractions

Resources

- Required**
- At least 3 notebooks (2 white, 1 pink)
 - Scientific calculator (not a phone-based application)
 - Ruler
 - Glue stick, stapler, or tape
- Suggested**
- Many different coloured 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 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 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.

Behavioural Expectations

For the sake of all the class members, 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 participate throughout the lesson until class is dismissed actively.

Behaviour is monitored daily per the class rules set out at the beginning of the academic year (see the front of your notebooks). Students earn the scores they receive. At the end of the semester, the average is taken and used for the student's behaviour score (10%).

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. Students are expected to catch up on all missed work outside class time. Unexcused absences or tardiness will not be tolerated. In the case of planned absences, please notify the teacher as soon as possible.

Homework & Classwork

Homework and classwork will be assigned often and must be submitted on or before the due date. If the work is not done by the start of class, a maximum score of 15 will be possible. All late or missed assignments not turned in *before* the last week of the term will receive a zero.



Grading

This course follows 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:

Quiz & Projects	20%
Home/classwork	20%
Affective Domains (Behavior)	10% (program mandated)
STEM	10% (program mandated)
Midterm (Summative) Exam	20% (program mandated)
Final Exam	20% (program mandated)

Recommendations for Success

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

1. Read, read, read the course textbook. Reading the text once is often not enough, even for native English speakers. 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. Search online, in either Thai or English, if you don't understand a topic discussed in class or to better understand the topic.
3. Get a Thai language introductory mathematics book.
4. Get a math and physics tutor. The tutor should be helping you learn, not doing the work for you!
5. Do **not** copy your classmate's work; struggle through and do the work on your own.
6. See the teacher outside of class time for assistance.
7. Do more than just the bare minimum; the textbook has plenty of problems. 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.
8. Study the notes and vocabulary for at least a few minutes every day, such as in homeroom or during any free time you might have in other classes.