



## MA22101 Foundation Mathematics 4

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**Teacher** Mr. Ryan Rogers

**Contact** EP Teacher Room, 2<sup>nd</sup> Floor Colombet Bldg.  
ryan.ro@assumption.ac.th

**Class Time** EP-M2/1: Tuesday, period 3; Wednesday, period 4; Thursday, period 5  
EP-M2/2: Monday, period 2; Tuesday, period 1; Thursday, period 2  
EP-M2/3: Monday, period 6; Wednesday, period 7; Thursday, period 3  
EP-M2/4: Tuesday, period 7; Wednesday, period 6; Friday, period 3

**Credits** 1.5

### Course Description

This foundation mathematics course focuses on the topics within algebra and geometry. These topics include the pythagorean theorem, surface area of a cylinder and prism, volume of a cylinder and prism, statistics, probability, and geometric transformations. 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 2B*, Aksorn Charoen Taet 2024  
ISBN- 8858649136657 & ISBN- 8858649136664

### Course Outline & Objectives

#### Powers (*Chapter 1, 2A*)

- ✓ Powers with Integers and Exponents
- ✓ Applying Knowledge of Powers in Word Problems
- ✓ Scientific and Standard Notation
- ✓ Adding, Subtracting, Multiplying, and Dividing with Standard Notation

#### Real Numbers (*Chapter 2, 2A*)

- ✓ Real Numbers



- ✓ Rational and Irrational Numbers
- ✓ Square and Cube Root of Rational Numbers

<b>End of Midterm Exam Content – Start of Final Exam Content</b>
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**Polynomials** (*Chapter 1, 2b*)

- ✓ Introduction of Monomials and Polynomials
- ✓ Adding and Subtracting Polynomials
- ✓ Multiplying Polynomials
- ✓ Dividing Polynomials by Monomials

**Factorization of Polynomials** (*Chapter 1, 2b*)

- ✓ Factoring a quadratic polynomial by using distributive property
- ✓ Factoring a quadratic polynomial by using perfect squares
- ✓ Factoring a quadratic polynomial by using the difference of squares

**Congruence** (*Chapter 5, 2a*)

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

**Parallel lines** (*Chapter 6, 2a*)

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

<b>End of Final Exam Content</b>
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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 dishonesty lower the quality of the education and will not be tolerated. Students involved in



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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

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

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

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

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

### Attendance & Tardiness

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

### 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.



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### 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:

Tests	20%
Quizzes	10%
Homework/Classwork	20%
Behavior	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**

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<b>Teacher</b>	Mr. Prakreet Singh
<b>Contact</b>	EP Teacher Room, 2 <sup>nd</sup> Floor Colombet Bldg.
<b>Class Time</b>	EP-M2/1: 2 Periods EP-M2/2: 2 Periods EP-M2/3: 2 Periods EP-M2/4: 2 Periods
<b>Credits</b>	1.0

### **Course Description**

This course provides an in-depth exploration of intermediate algebraic concepts, focusing on the structures, properties, and applications of polynomials and quadratic relationships. Students begin by mastering the foundational concepts of polynomials, their standard forms, and degrees, before progressing through comprehensive techniques for polynomial factorization, including perfect squares, differences of squares, completing the sum and difference of cubes, and the application of the Remainder and Factor Theorems with long division.

Building on these factorization skills, the course extends into solving quadratic equations through multiple methodologies: factoring, completing the square, and applying the quadratic formula. Students will learn to analyze real-world scenarios and engineer mathematical solutions through structured problem-solving. Additionally, the curriculum covers simultaneous equations of second or higher degrees, homogeneous systems, and the geometric properties of quadratic functions, enabling students to interpret parabolas and solve quadratic equations both analytically and graphically.

### **Textbooks**

*Custom Worksheets with Reference to Haese Mathematics (IB) and New Mathematics Sec 3 Workbook (IGCSE)*

### **Course Outline & Objectives**

#### **1. Factorization of Polynomials (13 Hours)**

- Polynomials, Standard Form, and Degree of Polynomials
- Factors and Core Concepts of Factorization
- Factorization of Quadratic Polynomials and Perfect Square Polynomials
- Factorization using the Difference of Two Squares
- Factorization of Quadratic Polynomials by Completing the Square
- Factorization of the Sum and Difference of Cubes
- The Remainder Theorem and Factor Theorem
- Advanced Factorization by Factor Theorem followed by Polynomial Long Division

#### **2. Quadratic Equations (12 Hours)**

- Understanding the Roots of a Quadratic Equation



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- Solving Quadratic Equations by Factorization
- Solving Quadratic Equations by Completing the Square
- Solving Quadratic Equations by using Quadratic Formula
- Applied Problem Solving and Word Problems using Quadratic Equations

### 3. Parabolas (7 Hours)

- Introduction to Quadratic Functions and Graphs
- Drawing and Plotting Quadratic Graphs (Parabolas)
- Solving Quadratic Equations Graphically and Analytically

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### Behavioral Expectations

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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*:

- 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 enough 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:

Assignments/Projects	25%
Tests	25%
STEM	-
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 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.



### MA20223 Supplemental Mathematics 3

**Teacher** Mrs. Suphak Keereepart

**Contact** EP Teacher Room, 2<sup>nd</sup> Floor Colombet Bldg.

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

EP-M2/2: Tues, period 6

**Credits** 0.5

#### Course Description

This mathematics course focuses on the topics of polynomial factorization and rational functions. This course enables students to learn and use mathematical skills and processes which include problem-solving, reasoning, communications, mathematical implication and presentation, mathematical connections, and creative thinking. Students are encouraged to have responsibility, discipline, self-confidence, and positive attitudes toward mathematics. The course closely follows the content of the Thai syllabus while also exposing students to questions and word problems from an international syllabus.

#### Textbook

*Haese, Michael, et al. Cambridge IGCSE International Mathematics (0607) Extended (2nd Edition). Haese Mathematics Pty, Limited, 2021. ISBN 978-1-925489-65-1*

#### Course Outline & Objectives

Learning Units	Chapters from the textbook
<p><b>1. Polynomial Factorization</b></p> <p>1.1. The distributive property</p> <p>1.2. Factorization of quadratic polynomials in one variable</p> <p>1.3. Factorization of polynomials: perfect squares</p> <p>1.4. Factorization of polynomials: the difference of squares</p>	<p><i>Chapter 1. Algebra (Expansion and Factorisation)</i></p> <p><i>Notes provided by the instructor</i></p>
<p><b>2. Rational Functions</b></p> <p>2.1. Definition</p> <p>2.2. Multiplication and division of rational functions</p> <p>2.3. Addition and subtraction of rational functions</p> <p>2.4. Solving equations with rational <u>functions</u></p>	<p><i>Chapter 16. Algebraic Fractions</i></p> <p><i>Notes provided by the instructor</i></p>

- Google Classroom
- A4 paper or notebook
- Writing supplies



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### **Behavioral Expectations**

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

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

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

### **Attendance & Tardiness**

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

### **Assignments & Projects**

An assessment item must be submitted on or before the due date. **An assessment item submitted later than the due date, without an extension from the teacher, will be subject to a penalty (deduction of marks).** Late homework may be completed and submitted to qualify towards eligibility for exams. At the end of the semester, if the students have not completed a sufficient number of homework assignments to pass this aspect of the course, additional work will be set for them.



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### Grading

This course adheres to the Assumption College grading scale:

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

### Evaluation and Assessment

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

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

### Recommendations for Success

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

1. Read the provided course notes. You may need to read the material multiple times to understand. By reading along at home with the lessons taught at school, students will be able to responsibly manage the material and gain the most from the course.
2. Complete all forms of assessment and submit all homework and assignments.
3. Search online, in either Thai or English, if you don't understand a topic discussed in class or simply to get a better understanding of the topic.
4. Do not copy the work of your classmates' work; try to struggle through on your own. This will help you learn.
5. Seek the teacher for assistance.
6. Do more than just the bare minimum; do the additional problems in the textbook and the review questions at the end of the chapter and check your answers.
7. Study the notes and vocabulary daily.



**EN22101 Foundation English 3**

**Teacher** Mr. Nathan Hunter

**Contact** EP Teacher Room, 3<sup>rd</sup> Floor Colombet Bldg.  
Nathan.hu@assumption.ac.th

**Credits** 1.5

**Course Description**

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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 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 20<sup>th</sup> week. All classes will use Schoology to keep track of assignments and grades.

A second book called, “Strategic Reading 2” will be 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 a book report to do. The novel we are reading is ‘the Shadow Cypher.’

**TEXT BOOK:**

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

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

“Where the Red Fern Grows” Wilson Rawls  
ISBN: 978-0-440-41267-0

**Resources**

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|-----------|--|
| Required  | <ul style="list-style-type: none"><li>• 2 notebooks.(Pink and White)</li><li>• Dictionary (English to English, not a translating one)</li><li>• Access to the internet for quizlet, edmodo, and emails for grades</li><li>• Longman’s Writing Series Book 2</li><li>• Strategic Reading Book 2 (Green Color)</li></ul> |
| Suggested | <ul style="list-style-type: none"><li>• A clear folder for English to hold handouts and quizzes to study.</li><li>• Many different colored pens/markers/highlighters</li></ul>   |



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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.



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**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%

<b>Weeks:</b>	<b>Units and Chapters</b>	<b>Skills focus:</b>	<b>Reading:</b>	<b>Assignments:</b>	<b>Quizzes:</b>
1-2	Think (SB): Unit 1  Where the Red Fern Grows: 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  Chapter 1 p. 1-10, 11-20  Think (SB) p 16-17  N/A	Think (SB) p. 12; (WB) p. 12	Google Classroom Quiz  Google Classroom Quiz  Google Classroom Quiz



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3-4	No Unit.  Think (SB) Unit 5  Where the Red Fern Grows: Chapter 1:  No Unit	Review of Clauses/Sentences  Grammar  Reading  Writing: Identifying Supporting Sentences	(N/A)  Where the Redfern Grows: p. 21-30, 31-40  No Reading	Unit 5 (SB) p. 50, 53; (WB) p. 46, p. 47  Writing a Paragraph	Google Classroom Quiz  Google Classroom Quiz  Google Classroom Quiz
5-6	<b>Think 3 (SB): Unit 2: A Hard Life</b>  <b>Think (SB): Unit 2</b>  <b>Where the Red Fern Grows</b>	Reading  Reading/Grammar  Reading	Think (SB) Unit 2: p. 20-2  Think (SB) Unit 2: p. 22, (WB) p. 18  Where the Red Fern Grows: P. 41-50, p. 51-60		Google Classroom Quiz  Google Classroom Quiz
Week 7-8	Think 3 (SB) Unit 2  Where the Red Fern Grows	Listening	Where the Red Fern Grows: 61-70, 71-80	Think 3 (SB) page. 23	Google Classroom Quiz
<b>Weeks:</b>	<b>Units and Chapters</b>	<b>Skills focus:</b>	<b>Reading:</b>	<b>Assignments:</b>	<b>Quizzes:</b>
9-10	Review for the Midterm	Review		N/A	N/A
Week 10	Midterm Exams				



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Week 11-12	Think 3: Unit 3, "What's in a Name?" No Unit  No Unit  Where the Red Fern Grows	Grammar/Reading: Ought, have to, must  Grammar  Grammar: Quantifiers	NA  Review of FANBOYS, 'or, nor'  Class Notes  Where the Red Fern Grows: p. 81-90, p. 91-100	Think 3: Unit 4 (SB) p. 32, 35 (WB) p. 28, p. 29	Google Classroom Quiz  Google Classroom Quiz
Week 13-14	Think 3: Unit 4: "What Would you Do?"  Where the Red Fern Grows	Reading/Grammar: Conditionals	Think 3: Unit 4 p. 39-40  Where the Red Fern Grows: p. 101-110, p. 11-120	Think 3: (SB) Unit 4 p. 40, p. 41, 42 (WB) p. 36, 37	Google Classroom Quiz
15-16	Think 3: Unit 5 "Story Telling"  Think 3: Unit 5  Where the Red Fern Grows	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"  Where the Red Fern Grows: p. 121-130, 131-140	Think 3: Unit 5 p. 53 (WB) p. 46, p. 47  Writing a Paragraph.	Google Classroom Quiz  Google Classroom Quiz
17-19	Think Unit 6: "That's Impossible"  Think Unit 6: "That's Impossible" Where the Red Fern Grows	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" Where the Red Fern Grows: p.	Think 3 Unit 6: (SB) p. 56-61, (WB) p. 54, 56  Think 3 Unit 6, (SB) p. 60, 61	Google Classroom Quiz  Google Classroom Quiz



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	Week 19: Review for the Final Semester Exam		141-150, 151-160		
Week 20	Final Exam Week				



## ST20234 Web Programming

**Teacher** Mr. Dave Thomas  
**Contact** EP Computer Lab 5<sup>th</sup> Floor 2003 building

**Credits** 0.5

### Course Description

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This course is designed to introduce students to programming for the web with a focus on web pages and sites. The students will be taught Hypertext Markup language (HTML) as the frame for a webpage, then they will be taught Cascading Style Sheets (CSS) a stylesheet language used to define the visual presentation and layout of web documents. While HTML establishes the structure of a webpage (like headings and paragraphs), CSS controls how those elements appear to the user, and thirdly basic JavaScript, a high-level, lightweight programming language primarily used to create interactive and dynamic content on the web by enabling features like animated graphics, interactive maps etc.

### Course Outline & Objectives

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

Topics
<ul style="list-style-type: none"><li>• <b>HTML Basics</b></li><li>• Document structure, headings, paragraphs, lists, links, images (with alt text).</li><li>• Simple semantic tags.</li><li>• <b>CSS Basics &amp; Styling</b></li><li>• Linking external CSS, selectors, colors, fonts, text styling.</li><li>• margin/padding, borders, display property.</li><li>• Simple hover effects .</li><li>• <b>JavaScript Introduction – Basics</b></li><li>• Variables (let, const), data types (strings, numbers, booleans).</li><li>• Console.log for debugging.</li><li>• Basic operators and simple calculations.</li><li>• JavaScript Control Flow &amp; Functions</li></ul>

### Resources

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Required

- EP Computer Lab

### Academic Integrity Policy

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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



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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. 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	30%
Coursework	30%
Behavior	10% (program mandated)
Midterm Exam/Project	10% (program mandated)
Final Exam	10% (program mandated)

### **Recommendations for Success**

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

1. Read, read, read the teacher's online notes. Oftentimes, reading the text once is not enough even for native English speakers. You may need to read the material multiple times to understand. By reading along at home with the lessons taught at school (typically only a few pages per night), students will be able to responsibly manage the material and gain the most from the course.
2. Search online, in either Thai or English, if you don't understand a topic discussed in class or simply to get a better understanding of the topic.
3. Do **not** copy your classmates work; struggle through and do the work on your own! This is how you learn!
4. Come see the teacher outside of class time for assistance.
5. Do more than just the bare minimum; there are plenty of problems in the teacher's online notes. We only have time for so many of them. Do the review questions at the end of the chapter and see the teacher for the answers.
6. Study the notes and vocabulary at least a few minutes every day, such as in homeroom or during any free time you might have in other classes.



**ST22104 and ST22105 Technology and Computer Science**

**Teacher** Mr. Dave Thomas

**Contact** EP Teacher Room, 2<sup>nd</sup> Floor Colombet Bldg.

**Credits** 0.5

**Course Description**

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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 control flow charts in program planning stage. Introduction to Python programming and Python for the SPIKE environment and comparison of block to text programming . 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]**

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Intermediate level programming-Spike

Introduction to Python programming

Python in the spike environment

Variables-use in programming

Advancement of the concept of planning to program (pseudo-code and control flow, Logical systems)

**Resources**

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- Required
- EP Computer Lab
  - Robots

**Academic Integrity Policy**

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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.

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### Behavioral Expectations

For the sake of all the members of the class, students are expected to respect themselves, their classmates, the teacher, and the facilities. Students must accept responsibility for themselves and their actions. A behavior score (out of 10 points) is taken every day. At the end of the semester the average is taken and used for the student's behavior score (10%). Students *earn* the scores they receive.

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

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

### Attendance & Tardiness

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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

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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

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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



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### 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 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.



ST20233 **Website Design**

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**Teacher** Mr. Matt Harris

**Contact** Location: 5th Floor Computer Lab

**Class Time** EP-M 2/3: Thursday 12:10 – 13:50  
Friday 10:20 – 11:10

**Credits** 1.0

**Course Description**

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This course introduces students to the basics of website design and development through fun, creative, and hands-on projects. Students will learn how websites are planned, designed, and built using layout principles, color, typography, images, and beginner web design tools. They will create their own web pages while exploring topics such as user experience, digital creativity, and responsible online content creation. The course encourages problem-solving, creativity, and communication skills while giving students an introduction to the world of web design and digital media.

**Course Outline & Objectives**

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Topics include: [Indicator 1,2]

**Graphic Design 1 & 2** [Indicator 1, 2]

<b>Information Technology</b>
Week 1: Operating systems in Apple iMac Week 2: Fundamentals of Website Design Week 3: Wire framing and design process Week 4-5: Web design tools and editors Week 6-7: Intro to Dreaweaver <b>Midterm Exam (Week 8 and 9)</b> Week 10-12: Hardware and Software Week 13: Colour Theory and Typography Week 14-15: HTML & CSS basics <b>Final Exam (Week 16)</b>

**Resources**

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- |           |                   |
|-----------|-------------------|
| Required  | • EP Computer Lab |
| Suggested | • Headphones      |



### **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. 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.



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### 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.
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3. Do **not** copy your classmates work; struggle through and do the work on your own! This is how you learn!



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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.



**ST20253 Computer for Education 3**

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**Teacher** Mr. Matt Harris  
**Contact** Location: 5th Floor Computer Lab  
**Class Time** EP-M 2/2: Thursday 8:30 – 09:20  
EP-M 2/1: Thursday 10:20 - 11:10  
**Credits** 1.0

**Course Description**

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This course helps students develop essential computer and digital skills for learning, creativity, and everyday life. Students will explore topics such as digital literacy, online safety, word processing, presentations, spreadsheets, multimedia creation, and responsible technology use. Through practical activities and projects, students will build confidence using computers to research, communicate, organize information, and solve problems while preparing for future academic and real-world technology applications.

**Course Outline & Objectives**

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Indicators

1. Discuss principles of operations and software in iMac's.
2. Explore how data and technology is used and create spreadsheets in Numbers.
3. How to create and improve on presentation and word processing applications.

**Computer for Education 3 & 4** [Indicators 1, 2, 3]

<b>Data Communications &amp; Networking</b>
Week 1-2: Number Systems for Computers <ul style="list-style-type: none"><li>• Binary number system</li><li>• Floating point arithmetic</li></ul>
Week 3-7: Networking <ul style="list-style-type: none"><li>• Physical</li><li>• Network</li><li>• Transport</li><li>• Application</li><li>• Client-server architecture</li><li>• TCP/IP</li><li>• Networks Topologies</li></ul>
<b>Midterm Exam (Week 8 and 9)</b>
Week 10-15: Web Technologies <ul style="list-style-type: none"><li>• JavaScript/ HTML/ CSS</li><li>• Developer tools</li></ul>



- Network/ Resource monitoring
- Databases

**Final Exam (Week 16)**

**Resources**

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- |           |                   |
|-----------|-------------------|
| Required  | • EP Computer Lab |
| Suggested | • Headphones      |

**Academic Integrity Policy**

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**Behavioral Expectations**

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

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- 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.



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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 for a maximum of 50% up until the last week of the term. All late or missed assignments that are not turned in *before* the last week of the term will receive a zero.

### Grading

This course follows to the Assumption College grading scale:

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

### Evaluation and Assessment

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

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

### Recommendations for Success

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

1. Read, read, read the teacher's online notes. Oftentimes, reading the text once is not enough even for native English speakers. You may need to read the material multiple times to understand. By reading along at home with the lessons taught at school



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(typically only a few pages per night), students will be able to responsibly manage the material and gain the most from the course.

2. Search online, in either Thai or English, if you don't understand a topic discussed in class or simply to get a better understanding of the topic.
3. Do **not** copy your classmates work; struggle through and do the work on your own! This is how you learn!
4. Come see the teacher outside of class time for assistance.
5. Do more than just the bare minimum; there are plenty of problems in the teacher's online notes. We only have time for so many of them. Do the review questions at the end of the chapter and see the teacher for the answers.
6. Study the notes and vocabulary at least a few minutes every day, such as in homeroom or during any free time you might have in other classes.



### **ST20223 Supplemental Science 3**

**Contact:** EP Teacher Room, 2<sup>nd</sup> Floor Colombet Bldg.  
**Nicholas.Cr@assumption.ac.th**

**Class Time:** EP-M 2: Fri period 5

**Credits:** 0.5

#### **Course Description**

Study, research, tell, explain, practice, experiment and calculate about the use of basic science equipment, practices for science laboratory use; use and maintenance of microscopes and calculation of microscope magnification; simple experiments in relation to chemistry, biology and physics. Students will apply the scientific process: knowledge search, exploration, investigation, data research, data record, data classification, and discussion. They will acquire knowledge, ideas, and understanding and will be able to present and communicate what is learned. Students will also have the ability to make decisions and apply knowledge to everyday life. Scientific mind, ethics and morals, together with proper social values will be promoted. See course outline and objectives below.

#### **Textbook**

Science Fusion - Module K: Introduction to Science and Technology, ISBN:  
9780547589343

#### **Course Outline & Objectives**

[Indicator 1 - 4]

##### **UNIT 2: Measurement and Data [Indicator 1]**

###### **Lesson 1: Representing data – Weeks 1-3**

- ✓ Understand tables, graphs and models.
- ✓ Explain the characteristics of graphs
- ✓ Define what is involved with scientific models
- ✓ Understand the importance of representing data correctly
- ✓ Visual Summary – Representing data

###### **Lesson 2: Scientific Tools and Measurement [Indicator 3] – Week 4-5**

- ✓ Understand how to use different measurement systems
- ✓ Explain what a measurement tool is used for.
- ✓ Differentiate between scientific tool and measurement tool.
- ✓ Understand the scientific tool uses.
- ✓ Visual Summary – Scientific Tools and Measurement.

###### **Lesson 3: Models and Simulations [Indicators 1] – Week 6 -7**

- ✓ Understand the types of models.
- ✓ Describe different models and simulations.
- ✓ Explain where we use models and simulations.
- ✓ Difference between models and simulations
- ✓ Visual Summary – Models and simulations

#### **Midterm Exam**

Using the Microscope: [Indicators Standard 3] – Week 11-13



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- ✓ Explain how scientists use microscopes.
- ✓ Describe what microscopes do and how they get evidence.
- ✓ Understand how microscopes have changed over time.
- ✓ Visual Summary – Microscopes

Conducting experiments [Indicator 4]– Week 14 -15

- ✓ Explain how science experiments are to be conducted.
- ✓ Evaluate how bad experiments are done.
- ✓ Describe the different scientific experiments.
- ✓ Learn how to ask scientific questions and then test it.
- ✓ Explain how the different sciences use experiments
- ✓ Visual Summary – Conducting experiments.

Inquiry base project [Indicator 4] – Week 16 - 17

- ✓ Explore the scientific method by doing their own project.
- ✓ Test their project and make adjustments.
- ✓ Present their work to the class.
- ✓ Explain the process of the scientific method.
- ✓ Visual Summary – My project

### Resources

Required  1 notebook

- 1 plastic folder for course materials
- Science Text Book
- Red and blue pen. Liquid paper. Pencils. Ruler
- Internet -Schoology
- Headphones

Suggested  Many different colored pens/markers/highlighters  Electronic Thai-Eng translator / calculator (phone-based application acceptable **after** teacher approval)

### 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 and to actively participate throughout the lesson until class is dismissed.

All students are given a full score for behavior (10 points) which must be maintained throughout the course of the subject. Any student whose behavior score slips below 5 points over the course of time will be referred to the discipline master.

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

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

### Homework & Class work

Homework will be assigned intermittently by the teacher. Any late work submitted may result in point's penalization. A student may request for more time to complete their homework which may or may not be granted by the subject teacher. This is granted at the discretion of the subject teacher.

### 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



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**Evaluation and Assessment**

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

Class work & homework	10%
Labs and quiz's	10%
Essays and projects	20%
Notebook work	10%
Behavior (speaking in English / on task / punctual)	10% (program mandated)
Midterm Exam	20% (program mandated)
Final Exam	20% (program mandated)

**Recommendations for Success**

Don't play games or watch TV until your homework is done. Don't stay up late. You should be in bed at 9 pm so you can get a good night sleep. If you can't get a good 8 hours of sleep per night, it will affect both your attention span in class and your overall ability to learn



**OC22101 Foundation Occupational Works 3**

**Teacher** Dr. Hermann Gruenwald

**Contact** EP Teacher Room, 2<sup>nd</sup> Floor Colombet Building  
hermann.gr@assumption.ac.th

**Website** <https://classroom.google.com/c/ODYzNTEzMjMwMTU3>  
<https://classroom.google.com/c/ODYzNTEzOTI0Nzk4>  
<https://classroom.google.com/c/ODYzNTE0MDk3Mji0>  
<https://classroom.google.com/c/ODYzNTE1OTY5MDky>

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

**Class Time**

M2/1 Monday 08:30-09:20  
M2/2 Friday 13:00-13:50  
M2/3 Monday 12:10-13:00  
M2/4 Wednesday 12:10-13:00

**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"><li>• AC Three Ring Binder A4 with clear pocket and blank paper</li><li>• Basic stationary (pen, pencil, eraser, ruler, sharpener etc.)</li><li>• Extra stationary (glue stick, stapler, tape, liquid paper etc.)</li></ul>
Suggested	<ul style="list-style-type: none"><li>• Various colored pens / markers / highlighters / pencils</li></ul>
Occasional	<ul style="list-style-type: none"><li>• Drinks ingredients, decorations and glassware</li><li>• Craftwork materials or items</li></ul> <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,



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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**

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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**

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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**

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This course follows to the Assumption College grading scale:

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



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### **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**

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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. Don't forget about assignments or to catch up on missed work
7. Check google classroom frequently for assignments and grades



## **HP22101 Foundation Health Studies 3**

**Teacher:** Mr. Grant Shorten  
**Contact:** Teachers Room, 2nd Floor Colombet Building.  
grant.sh@assumption.ac.th  
**Class Time:** EP-M2/1-4  
**Credits:** 0.5

### **Course Description**

The M2 Foundation Health Studies course provides an in-depth exploration of essential health concepts relevant to children and teenagers, emphasizing their physical, emotional, and social development. This course is designed for students interested in understanding the critical aspects of growth, development, dietary needs, and consumer health literacy. Through a combination of theoretical knowledge and practical application, students will gain a comprehensive foundation in health studies that prepares them for advanced coursework and careers in health-related fields.

This comprehensive course offers a solid foundation in understanding the various factors influencing health from childhood through adolescence, as well as practical knowledge on nutrition and consumer health.

### **Textbook**

McGraw Hill Teen Health  
External Resources

### **Course Outline & Objectives**

- 1. Growth and Development of School-Age Children:**
  - Understand the stages of physical, cognitive, and emotional development in school-age children.
  - Explore the impact of family, school, and community on a child's growth.
  - Analyze developmental milestones and the variation in growth patterns.
- 2. Teenagers and Adjustment:**
  - Study the physical, psychological, and social changes during adolescence.
  - Examine common challenges faced by teenagers, including identity formation, peer pressure, and mental health issues.
  - Discuss strategies for supporting teenagers in their adjustment to changes and promoting healthy coping mechanisms.
- 3. Therapeutic Diet:**
  - Learn about different types of therapeutic diets and their purposes, such as diabetic, gluten-free, and cardiac diets.
  - Understand the role of nutrition in managing and preventing health conditions.
  - Explore case studies that illustrate the implementation and effects of therapeutic diets in various populations.
- 4. Consumers and Healthy Products:**
  - Investigate the principles of consumer health and the importance of making informed choices.



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- Analyze marketing strategies of health products and their impact on consumer behavior.
- Evaluate the credibility and effectiveness of health products and services in the market.

**Learning Outcomes:**

By the end of this course, students will be able to:

- Identify and describe the key stages of development in school-age children and adolescents.
- Recognize the challenges teenagers face and propose appropriate support strategies.
- Explain the importance of therapeutic diets and apply knowledge to real-world scenarios.
- Critically assess health products and make informed decisions as health consumers.

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

grant.sh@assumption.ac.th

Resources Required

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A plastic folder for worksheets.

White School Notebook

Red and blue pen

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.

**Behavioural 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.

Behaviour 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 behaviour score (10%). Students *earn* the scores they receive.



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

### Evaluation and Assessment

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

Class work	20%
Class Participation	10%
Note book	10%
Behavior	10%
Quizzes	10%
Midterm (Summative) Exam	20% (program mandated)
Final Exam	20% (program mandated)



### Recommendations for Success

Health 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. 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.



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**ST22101 Foundation Science 3**

**Teacher** Mr. James Harvey

**Contact** EP Teacher Room, 2<sup>nd</sup> Floor Colombet Bldg.  
Email: james.th@assumption.ac.th

**Class Time** EP-M 2/1:

EP-M 2/2:

EP-M 2/3:

EP-M 2/4:

**Credits** 1.0

### **Course Description**

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This course provides students with a comprehensive understanding of the human body, animal systems, and the factors that influence health and wellbeing. It begins by exploring the structure and function of major body systems in both humans and animals, highlighting similarities, differences, and how organisms respond to internal and external stimuli. Students are also introduced to basic biotechnology techniques used in animal breeding and livestock improvement, linking science to real-world agricultural practices.

The course then focuses on nutrition and health, examining essential nutrients, how to calculate food energy, and how to make informed dietary choices based on scientific principles. Students investigate food safety, including contaminants and their effects, as well as issues such as malnutrition and diseases linked to poor diet and lifestyle. This section encourages students to develop a deeper awareness of how everyday choices impact overall health.

In addition, students study the effects of addictive substances on the body, learning about their characteristics, how they disrupt normal body system functions, and strategies for prevention and resistance. The course also provides a detailed look at key human body systems, including the digestive, circulatory, respiratory, excretory, reproductive, skeletal-muscular, and neuro-endocrine systems, along with the process of reproduction.

Finally, the course introduces the immune system and the body's ability to defend itself against disease. Students explore how infectious diseases spread and how the immune system responds, helping them build a foundational understanding of health, disease prevention, and the importance of maintaining a healthy lifestyle.

### **Textbook**

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Science Fusion: Matter and Energy (H). Holt McDougal (2012) ISBN- 978-0-547-58936-7  
Focus Smart Plus Science Mathayom 2 (2017) ISBN- 9786165413152

Neoscience

Level 2

Icon Digital

Michael G.Hines & Jirayu Insi

ISBN: 978-616-94978-1-3



## Course Outline & Objectives

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\*Taken from Thai & *British* Curricular\*

### **Our Body and Animal's Life**

- 1.1 Structures and Operations of Various Human Body Systems
- 1.2 Structures and Operations of Various Animal Body Systems
- 1.3 Human and Animal Behaviors Responding to External and Internal Stimuli
- 1.4 Biotechnology for breeding and improving livestock

### **Foods and Nutrients**

- 2.1 Nutrients
- 2.2 Calculations for Food Calories
- 2.3 Food Consumption based on Principles of Nutrition
- 2.4 Food Contaminants
- 2.5 Malnutrition
- 2.6 Basic Food Sources Necessary for the Body
- 2.7 *Diseases associated with poor diet/lifestyle*

### **Addictive Substances and Their Effects on the Body**

- 3.1 Addictive Substances
- 3.2 Characteristics and Effects of Addictive Substances on the Operations of Various Body Systems
- 3.3 Prevention and Resistance of Addictive Substances

### **OurBody**

- 4.1 Digestive system
- 4.2 Circulatory system
- 4.3 Respiratory system
- 4.4 Excretory system
- 4.5 Reproductive system
- 4.6 *Skeletomuscular system*
- 4.7 *Neuro-Endocrine Systems*
- 4.8 *Reproduction*

### ***Disease and Immunity***

- 5.1 *The immune system*
- 5.2 *Infectious Disease*

## **Resources**

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- |           |   |
|-----------|---|
| Required  | <ul style="list-style-type: none"><li>• 1 notebook</li><li>• 1 plastic folder</li><li>• Science Fusion Book</li><li>• Red and blue pen. Liquid paper. Pencils. Ruler</li><li>• Headphones</li></ul>                       |
| Suggested | <ul style="list-style-type: none"><li>• Many different colored pens/markers/highlighters</li><li>• Electronic Thai-Eng translator / calculator (phone-based application acceptable only after teacher approval)</li></ul> |



### **Academic Integrity Policy**

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### **Behavioral Expectations**

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

All students are given a full score for behavior (10 points) which must be maintained throughout the course of the subject. Any student whose behavior score slips below 5 points over the course of time will be referred to the discipline master.

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**

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

### **Homework & Class work**

Homework will be assigned intermittently by the teacher. Any late work submitted may result in point's penalization. A student may request for more time to complete their homework which may or may not be granted by the subject teacher. This is granted at the discretion of the subject teacher.

### **Grading**

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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



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### **Evaluation and Assessment**

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

Labwork	15%
Homework/Classwork	15%
End of Unit Tests	20%
Behavior (speaking in English / on task / punctual)	10% (program mandated)
Midterm (Summative) Exam	20% (program mandated)
Final Exam	20% (program mandated)

### **Recommendations for Success**

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

Focus in class, it's the best time as you have the teacher to answer your questions.  
Listen to your teacher; they want you to do well!

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.

Youtube videos can be educational - I highly recommend watching some topics by

**Kurzgesagt – In a Nutshell.**

Don't cheat, do the work on your own! This is how you learn! Use your memory and critical thinking skills, develop them.

If you are stuck on something, please feel free to come see me outside of class time for assistance. I will always find time for you.

Do mock tests/quizzes/exams. Again and again and again. It is a great way to prepare for your real exams!



## EN20203 M2 Supplemental English 3

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<b>Teacher</b>	Mr. Paul Griffiths
<b>Contact</b>	EP Teacher Room, 2 <sup>nd</sup> Floor Colombet Bldg. paul.gr@assumption.ac.th
<b>Class Time</b>	EP-M2 (1-4) Three Periods a Week for Each Class <i>(one class a week is taken from EN22101)</i>
<b>Credits</b>	1

### 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 the students will sit during Semester 2). In order to perform well in the PET test, students will also need to improve their grammar and expand their vocabulary.

### Textbooks

*Complete Preliminary 2<sup>nd</sup> edition – Student’s Book* - Cambridge Course book  
*Complete Preliminary 2<sup>nd</sup> 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 and Place & Adverbs of frequency.
  - ✓ PET Listening – Short Situations (*PET part 2*)
  - ✓ PET Reading – Understanding Vocabulary (*PET part 5*)
  - ✓ PET Speaking -Introduction Language (*PET part 1*)
- Week 4** ✓ PET Writing skills (writing an email reply)
- 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*)
- Week 7-8 - Complete Preliminary Unit 3 – Having Fun**
- ✓ Vocabulary – Leisure Activities and Hobbies & Phrasal Verbs
  - ✓ Grammar – Verbs followed by ‘ing’ and ‘to’
  - ✓ PET Reading – Reading for Detailed Understanding (*PET part 3*)
- 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 Listening – Adding in words (*PET part 3*)

**Week 13** ✓ PET Writing skills (Writing an article)

**Week 14-16 - Complete Preliminary Unit 5 – Different Feelings**

- ✓ Vocabulary – Types of feeling
- ✓ Vocabulary – adjectives and prepositions
- ✓ Grammar – Modal verbs & ‘\_ing’ and ‘\_ed’ adjectives
- ✓ PET Reading – Identifying topics in a paragraph (*PET part 4*)
- ✓ PET Listening – Short Situations (*PET part 2*)

**Week 17** ✓ PET Speaking skills (Describing a picture)

**Week 18** – **Revision of Skills and content / Catch up on missed classes**

**Week 19** – **Final Exams**



## **Resources**

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- Required
- 1 notebook (1 white notebook)
  - Textbooks
  - Blue or black pen + red pen for checking work

## **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
- Be an AC gentleman
- Eager to learn
- Dedicated to work

## **Attendance & Tardiness**

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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**

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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%
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.