



MA23101 Foundation Mathematics 5

Teacher	Ms. Mabelle Wong
Contact	EP Teacher Room, 2 nd Floor Colombet Bldg.
Class Time	EP-M3/1: Mon, period 2; Wed, period 7; Fri, period 3 EP-M3/2: Mon, period 4; Wed, period 4; Thurs, period 3 EP-M3/3: Tues, period 4; Wed, period 1; Fri, period 3
Credits	1.5

Course Description

This foundation mathematics course focuses on the topics of surface area and volume, graphs, system of linear equations, system of equations, similarity, probability, and statistics. 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

IGCSE Cambridge International Mathematics Extended 3rd edition (Haese and Harris Publications)

Course Outline & Objectives

Learning Units	Chapters from Haese and Harris textbook
<p>1. Surface Area and Volume (Indicators MA2.1 S.3/1, MA2.1 S.3/2)</p> <ol style="list-style-type: none"> 3-D geometric figures Prisms and cylinders Pyramids and cones Spheres 	<p>Chapter 14: Measurement: Surface area, volume, and capacity p. 233-256</p>
<p>2. System of Linear Equations (Indicator MA1.3 S.3/3)</p> <ol style="list-style-type: none"> System of linear equations in two variables Solutions of linear equations in two variables and graphs Word problems of system of linear equations in two variables 	<p>Chapter 18: Simultaneous Equations p. 311-322</p>
<p>3. System of Equations (Indicator MA1.3 S.3/3)</p> <ol style="list-style-type: none"> Solutions of system of equations in two variables with degrees not exceeding two Word problems of system of equations in two variables with degrees not exceeding two 	<p>Chapter 18: Simultaneous Equations p. 311-322</p>



4. Similarity (Indicator MA2.2 S.3/1) 1. Similar geometric figures 2. Similar triangles 3. Applications	Chapter 21: Congruence and similarity p. 363-373
5. Probability (Indicator MA3.2 S.3/1) 1. Random experiment and sample space 2. Events 3. Finding probability of events	Chapter 25: Probability p. 445-472
6. Statistics (Indicator MA3.1 S.3/1) 1. Central tendency 2. Dispersion 3. Box-and-whisker plot	Chapter 26: Statistics: Numerical data p. 473-500

Resources

- A4 plastic portfolio
(to keep all student work and handouts)
- A4 lined paper or notebook
- A4 graph paper
- Ruler
- Writing supplies

Academic Integrity Policy

Students are expected to adhere to the Assumption College student handbook. There is to be no plagiarism, no copying, and no cheating of any kind. These and any other acts of academic dishonesty lower the quality of 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

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:

Assignments/Homework	20%
Quizzes/Tests	20%
STEAM	10%
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 work; 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.



MA20205 Universal Mathematics 3

Teacher Mr. Ryan Rogers

Contact EP Teacher Room, 2nd Floor Colombet Bldg.
ryan.ro@assumption.ac.th

Class Time EP-M3/1: Mon, period 5; Tue, period 3
EP-M3/2: Tue, period 1; Fri, period 4;
EP-M3/3: Mon, period 7; Fri, period 6

Credits 1.0

Course Description

This universal mathematics course focuses on the topics of Factorization of Polynomials, Quadratic Equations, Simultaneous Equations, Parabolas. 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

International GCSE MATHEMATICS Extended, Fearnley et Al Oxford University Press 2016
ISBN-978-0-19-837587-6

This book has been specially created for the Oxford AQA International GCSE Mathematics examination. It will be treated as the primary resource to be used to support our wider learning objectives.

Course Outline & Objectives

Unit 1: 1. Factorization of Polynomials

- 1.1 Polynomials
- 1.2 Stand Form of a Polynomial
- 1.3 Degree of Polynomials
- 1.4 Factors and factorization
- 1.5 Factorization of the Quadratic Polynomials
- 1.6 Factorization of the Perfect Square Polynomials
- 1.7 Factorization using the difference of two Square
- 1.8 Factorization of the Quadratic Polynomials by Completing the Square.
- 1.9 Factorization of Sum and difference of Cubes
- 1.10 Remainder Theorem and Factor Theorem
- 1.11 Factorization by Factor theorem and long division



Unit 2: Quadratic Equations

- 2.1 Roots of a Quadratic Equations
- 2.2 Solving Quadratic Equations by factorization
- 2.3 Solving Quadratic Equations by Completing the Square.
- 2.4 Solving Quadratic Equations by using Quadratic Formula
- 2.5 Problem solving using Quadratic Equations

End of Midterm Exam Content – Start of Final Exam Content

Unit 3: Simultaneous Equations

- 3.1 Standard Form
- 3.2 Simultaneous Equations of the second or Higher Degree
- 3.3 Homogeneous Equations

Unit 4: Parabolas

- 4.1 Introduction
- 4.2 Drawing Quadratic Graphs
- 4.3 Solving Quadratic Equations Graphically

Academic Integrity Policy

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Behavioral Expectations

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

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



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

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

Attendance & Tardiness

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

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:

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.



MA20225 Supplemental Mathematics 5

Teacher Dr. Keerthi Prabhakar

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

Class Time EP-M3/1: Mon, period 7
EP-M3/2: Tue, period 3
EP-M3/3: Mon, Period 3

Credits 0.5

Course Description

Exponents are a foundational concept in mathematics that simplify the expression of repeated multiplication. They allow us to represent and manipulate large numbers and quantities efficiently. Understanding exponents is crucial in various real-world applications, where they streamline calculations and modelling processes. For instance, exponential growth models in finance help predict compound interest over time, influencing investment decisions. Similarly, in scientific fields like physics and biology, exponential decay equations describe natural processes such as radioactive decay and population decline. These applications underscore the practical significance of exponents in analyzing dynamic systems and phenomena.

Circles, as geometric figures consisting of points equidistant from a central point, are equally essential in diverse fields. Their symmetry and properties have practical implications in architecture, contributing to the stability of structures like arches and domes. Engineers use circle theorems to design efficient gears and pulley systems, leveraging geometric principles to optimize mechanical operations. In physics, circles define the paths of objects in rotational motion and enable precise calculations of forces and velocities. Understanding circles thus facilitates practical problem-solving across disciplines, enhancing our ability to design, analyze, and innovate in theoretical and applied contexts.

Textbook / Worksheets

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

Teacher will also provide handouts

Course Outline & Objectives

Numbers of Units/Titles of Units	Time (Hours)	Competencies/Skills/Process/Teaching Methods	Media	Assessment
Application of exponents 1. Definition of exponents 2. Properties of exponents 3. Rational exponents	8 2 2 4	1. Lecture 2. Questions and answers 3. Group work process	1. Handouts 2. Worksheets 3. Website	1. Using the characteristic observation form 2. Checking exercises 3. Marking the tests



4. Solving exponential equations 5. Separating bases of powers 6. Applied math word problems				
Circles 1. Circles 2. Circle theorems 3. Application	12 2 2 4 4	1. Lecture 2. Questions and answers 3. Group work process	1. Handouts 2. Worksheets 3. Website	1. Using the characteristics observation form 2. Checking exercises 3. Marking the tests

Resources

Required

- 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

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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 behavior 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 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:

Quiz & Projects	20%
Home/class work	20%
Affective Domains (Behavior)	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 insufficient, 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! This is how you learn!
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 at least a few minutes every day, such as in homeroom or during any free time you might have in other classes.



EN23101 M3 Foundation English 5

Teacher Mr. Paul Griffiths

Contact EP Teacher Room, 2nd Floor Colombet Bldg.
paul.gr@assumption.ac.th

Class Time EP-M3 (1-2) Three Periods a Week for Each Class

Credits 1.5

Course Description

This class will aim to improve the general English of students. We will focus on the four skills of speaking, listening, reading and writing. We will also cover grammar and vocabulary. It is another goal of the course to encourage reading for pleasure and we will read *the Lion the Witch and the Wardrobe* in semester one and students will write a book report about it.

Textbooks + Novels

Think 4 – Student Book

Think 4 – Workbook

The Lion, the Witch and the Wardrobe – Novel by C.S. Lewis

The Thief of Always – Novel by Clive Barker

Course Outline & Objectives

Week 1 - Introduction to course

Week 2 - **Think – Welcome Unit**

- Using Verbs in the correct tense
- Phrasal Verbs

Weeks 3-5 - **Think Unit 1 – Survival Instinct**

- Vocabulary – Verbs of movement, Adjectives to describe feelings & expressions with ‘right’.
- Grammar – Verbs followed by gerund or infinitive
- Reading – Adding removed sentences to show understanding of paragraph
- Writing – A diary about an experience.
- Punctuation – Using apostrophes
- Functional Language – Issuing and accepting a challenge

Weeks 6-7 - **Think Unit 2 – On the Road**

- Vocabulary – Groups of people & more Phrasal verbs
- Grammar – Relative clauses
- Reading – Reading for detailed understanding
- Functional Language – Introducing (amazing) information



Week 8 – Revision of Skills / Catch up on missed classes

Week 9 – Midterm Exams

Week 10-11 – Begin Book Report

- Students read and discuss *The Lion, the Witch and the Wardrobe*
- Begin to write their book reports

Weeks 12-14 – Think Unit 3 – Growing Up

- Vocabulary – Costumes and uniforms & adverbial phrases
- Grammar – Quantifiers & so and such
- Reading – True or false
- Writing – An essay giving different points of view
- Punctuation – Using commas
- Functional Language – Emphasising

Weeks 15-17 – Think Unit 4 – The Art of Thinking

- Vocabulary – Adjectives to describe personality & adverbial phrases
- Grammar – Adverbs and adverbial phrases & using ‘used to’
- Reading – True or False
- Functional Language – Expressing Frustration

Week 18 – Work on book report (finish book report)

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

Week 20 – Final Exams

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

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.

Academic Integrity Policy



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

Behavioral Expectations

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

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

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

Attendance & Tardiness

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

Homework & Classwork

Homework and classwork will be assigned often and must be submitted on or before the due date. Late assignments can be submitted but some marks will be taken off as a penalty. All late or missed assignments that are not turned in *before* the last week of the term will receive a zero.

Grading

This course follows to the Assumption College grading scale:

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



Evaluation and Assessment

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

Formative Score	50%
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.



Student Syllabus for: EP3 Supplemental English 17 EN20217

Teacher: Mr. Hereward Campbell-Anderson

Contact: Hereward.ca@assumption.ac.th

COURSE DESCRIPTION:

Welcome to Semester 1 of EP3 Supplemental English. This course is designed to further your ability with analyzing reading, critical thinking, as well as strengthen your formal writing ability. We focus on academic skills, writing, time management and inter-personal communication skills. This course is writing, listening, speaking and reading intensive. In-class speaking assignments, research essays, large amounts of literary and academic vocabulary, participation, homework, quizzes and exams make up a majority of your grade. By the end of the year, you should be well prepared to take an International Exam in English.

The course is at an intermediate level and will move quickly. If you miss a class, it is your responsibility to find out what you have missed, either from your classmates or by seeing me on your own time, not during class time.

COURSE OBJECTIVES:

The main objectives of this course are:

- To strengthen the students' writing ability in formal, informal, and technical writing, according to University expectations
 - to broaden and expand the students' proficiency and knowledge in exam level English;
 - to provide material for the students to revise, consolidate and extend their command of English grammar and vocabulary;
 - to develop the students' reading skills to enable them to skim the text for main ideas, to scan the text for specific information, and to deduce meanings from the context, to identify the views/opinions of the author, to distinguish main ideas from supporting ones, to recognize connections and relationships between facts in a text and to label diagrams/flowcharts using precise information.
 - to develop the students' writing skills to enable them to respond to input applying information to a specified task, to elicit, to select, to summarize information in clear, organized essays, to give a well-organised overview of relevant information in a graph, chart, table or diagram and to present a clear, relevant, well-organised argument, giving evidence or examples to support ideas and use language accurately.
 - to develop the students' listening skills to enable them to understand and apply specific information from the input, to label a plan, map or diagram, to complete a table, flow-chart or summary, to record factual details, to summarise information to show how different items relate to one another, to listen for facts such as place/prices/times.



- to be exposed and learn in depth about a variety of societal and literary topics
- to develop the students' speaking skills to enable them to use social and professional language, to report, explain, summarize and develop a discussion;

COURSE OUTLINE:

A B2 First qualification proves you have the language skills to live and work independently in an English-speaking country or study on courses taught in English.

- Listening recording 1: Eight short extracts from monologues or conversations between interacting speakers. There is one multiple-choice question for each extract, and you have to choose A, B or C. Listening for feeling, attitude, opinion, purpose, function, agreement, gist and detail.
- Listening recording 2: A monologue (which may be introduced by a presenter) lasting approximately 3 minutes. You have to complete the sentences on the question paper with the missing information which you hear on the recording. Listening for specific information, stated opinion.
- The B2 First Reading and Use of English paper is in seven parts and has a mix of text types and questions. **For Parts 1 to 4**, you read a range of texts and do grammar and vocabulary tasks including gap fills and multiple choice.
- Writing: You're given an essay title and two ideas clearly linked to the title. You write an essay giving your opinions about the title, using the ideas given. You must also add a third, different idea of your own linked to the title. The title will be a subject of general interest – you won't need any specialised knowledge. Using language functions, such as evaluating, expressing opinions, hypothesising, justifying, persuading.
- Speaking 1: Conversation with the examiner. The examiner asks questions and you may have to give information about your interests, studies, career, etc. Give information about yourself and express your opinion about various topics.
- Speaking 2: The examiner gives you two photographs and asks you to talk about them. You have to speak for 1 minute without interruption and the interlocutor then asks the other candidate to comment on your photographs for about 30 seconds. The other candidate receives a different set of photographs and you have to listen and comment when they have finished speaking. The question you have to answer about your photographs is written at the top of the page to remind you what you should talk about.

End of Midterm Exam Content – Start of Final Exam Content

A B2 First qualification proves you have the language skills to live and work independently in an English-speaking country or study on courses taught in English.



- Listening recording 3: A series of five themed monologues of approximately 30 seconds each. On the question paper, you have to select five correct options from a list of eight possible answers. Listening for gist, attitude, opinion, purpose, feeling, main points and detail.
- Listening recording 4: A conversation between two or more speakers of approximately 3-4 minutes. You have to answer some multiple-choice questions by choosing the correct answer from three options (A, B or C). Listening for attitude, opinion, detail, gist, main idea and specific information.
- The B2 First Reading and Use of English paper is in seven parts and has a mix of text types and questions. **For Parts 5 to 7**, you read a series of texts and answer questions that test your reading ability and show that you can deal with a variety of different types of texts.
- Writing: You write a text from a choice of text types – article, email/letter, report or review. To guide your writing, you'll be given information about context, topic purpose and target reader. Writing different types of text that could be included in the exam.
- Speaking 3: Conversation with the other candidate. The examiner gives you some material and a task to do. You have to talk with the other candidate and make a decision. Exchanging ideas, expressing and justifying opinions, agreeing and/or disagreeing, suggesting, speculating, evaluating, reaching a decision through negotiation, etc.
- Speaking 4: Further discussion with the other candidate, guided by questions from the examiner, about the topics or issues raised in the task in Part 3. Expressing and justifying opinions, agreeing and/or disagreeing.

You need to have the following in class each day:

Blue or Black ink pens and pencils.

Plastic folder to hold materials/textbooks

(2) White notebooks

(1) Highlighter

Paper Dictionary

Paper/Electronic Thesaurus

COURSE POLICIES/BEHAVIOR:

Course policies are the rules and guidelines our class follows. They can be summed up in one word: respect. Respect the teacher; respect your fellow classmates and their desire to learn. Exhibit respect and behave and act as young men.

CHEATING, COPYING and PLAGIARISM:



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.

HOMEWORK:

All homework assignments must be completed and turned in on the day that it is due. Late work is accepted, but if work is turned in after class or the next day, points will be deducted.

GRADE DETERMINATION:

Your grades will be determined by your homework, class work, quizzes/tests and participation. You will be graded on speaking, listening, reading, writing and behaviour. Do your best in everything that we do, and do your best to keep up and not miss anything. Zeros will hurt your grade much more than a low score. **Active participation and preparedness is expected at all times!**

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:

Writing assignments (4)	12% (4 x 3%)
Speaking Assignments (4)	12% (4 x 3%)
Listening homeworks (4)	10% (4 x 2.5%)
Grammar homeworks (4)	8% (4 x 2%)
Reading homeworks (4)	8% (4 x 2%)
Behaviour	10%
Midterm Exam	20%
Final Exam	20%

Week	Course Content
1	Listening <ul style="list-style-type: none">Family and relationships Grammar <ul style="list-style-type: none">Error free questions Vocabulary <ul style="list-style-type: none">Phrasal Verbs
2	Vocabulary <ul style="list-style-type: none">Personality adjectives Reading <ul style="list-style-type: none">Friendships Speaking <ul style="list-style-type: none">Two-person role play
3	Grammar <ul style="list-style-type: none">Present perfect simple tensePresent perfect continuous tense Vocabulary <ul style="list-style-type: none">Money management collocations
4	Speaking <ul style="list-style-type: none">Pronunciation: word & sentence stressSpeaking part 1 questions Vocabulary <ul style="list-style-type: none">Collocations: <i>make</i> and <i>do</i>
5	Writing Part 1 <ul style="list-style-type: none">An Essay: Money managementDiscuss a question or topic



6	<p>Reading</p> <ul style="list-style-type: none">• Ice Skating <p>Vocabulary</p> <ul style="list-style-type: none">• Phrasal verbs & expressions• IELTS Speaking Part 2 <p>Speaking</p> <ul style="list-style-type: none">• Interview a partner – record in pairs
7	<p>Grammar</p> <ul style="list-style-type: none">• Adjectives with <i>-ed</i> and <i>-ing</i> <p>Listening</p> <ul style="list-style-type: none">• Describing experiences <p>Reading</p> <ul style="list-style-type: none">• Reading and Use of English Part 4
8	<p>Group Presentation</p> <ul style="list-style-type: none">• A Great Way to Spend Your Free Time <p>Revision</p> <ul style="list-style-type: none">• Guided quiz• Self-study + Q & A
9	<ul style="list-style-type: none">• Mid-term exam
10	<p>Speaking</p> <ul style="list-style-type: none">• Speaking part 2• Comparing photos <p>Pronunciation</p> <p>Sentence stress</p>
11	<p>Writing</p> <ul style="list-style-type: none">• Writing Part 2: an article, a letter, an email, a report, a review or a story• Editing <p>Grammar</p> <ul style="list-style-type: none">• Compound and complex sentences <p>Vocabulary</p> <ul style="list-style-type: none">• Adjectives
12	<p>Grammar Review</p> <ul style="list-style-type: none">• Present perfect simple and continuous tenses• Compound and complex sentences <p>Vocabulary Review</p> <ul style="list-style-type: none">• Adjectives• Phrasal verbs• Word formation



	<ul style="list-style-type: none">•
13	Listening <ul style="list-style-type: none">• Listening part 3: Identifying five different speakers Grammar <ul style="list-style-type: none">- Past simple, past continuous and <i>used to</i>
14	Vocabulary <ul style="list-style-type: none">• <i>Travel, journey, trip and way</i> Reading and Use of English Part 3 <p>A bus journey</p>
15	Grammar <ul style="list-style-type: none">• <i>at, in and on</i> in time phrases Reading and Use of English Part 7 <ul style="list-style-type: none">• Holiday Surprises Group Presentation <ul style="list-style-type: none">• An Unusual Meal
16	Grammar <ul style="list-style-type: none">• Past perfect simple• Past perfect continuous Speaking <ul style="list-style-type: none">• Speaking part 3: ideas and suggestions
17	Pronunciation <ul style="list-style-type: none">• Intonation Speaking <ul style="list-style-type: none">• Speaking Part 3• Listening and extended practice
18	Writing <ul style="list-style-type: none">• Writing Part 2• A short story Revision <ul style="list-style-type: none">• Guided quiz• Self-study + Q & A
19	<ul style="list-style-type: none">• Final exam
20	Review



ST23101 Foundation Science 5

Teacher Mr. Steven Kuhn

Contact EP Teacher Room, 2nd Floor Colombet Bldg.
Email:

Credits 1.5

Classes EP3/1; Tues P4, Wed P3, Fri P4
EP3/2; Mon P1, Thurs P5, Fri P7
EP3/3; Mon P5, Tues P7, Thurs P2

Course Description

This course focuses on understanding the definition of electricity, energy, energy transformation, energy transfer, interaction between matter and energy, energy in everyday life, the nature of waves, phenomena related to sound, light and electromagnetic waves and applies knowledge gained for useful purposes. The course offers an intermediate survey of these topics. As with many courses within EP, critical thinking skills are emphasized over those of rote learning.

Textbook

Focus Smart Science Textbook 3 Pelangi 2019
ISBN: 978-616-541-316-9

Course Outline & Objectives

Unit 1: Electricity [Indicator 1]

1.1: Where does electricity come from? [Indicator 1]

1.2: Sources of Electrical Energy

1.3: Current, Voltage, and Resistance

1.4: Direction of Electron Flow

Unit 2: Measuring Electricity [Indicator 2]

2.1: Measuring current and voltage

Unit 3: Current, Voltage, and Resistance

3.1: Ohm's Law

Unit 4: Parallel and Series Circuits

4.1: Components found in an electrical circuit

4.2: Complete series and parallel circuits

4.3: Similarities and differences between a series circuit and a parallel circuit

End of Midterm Exam Content – Start of Final Exam Content

Unit 5: Series Circuit [Indicator 3-4]

5.1: Current, voltage and resistance in a series circuit

5.2: Advantages and Disadvantages of a series circuit [Indicator 3]

Unit 6: Parallel Circuit [Indicator 5-6]

6.1: Current, voltage, and resistance in a parallel circuit [Indicator 5]

6.2: Advantages and disadvantages of a parallel circuit [Indicator 5]

6.3: Similarities and differences between a series and parallel circuit [Indicator 5]



Unit 7: Electronic Circuits [Indicator 5-6]

7.1: Introduction to electronic circuits [Indicator 5]

7.2: Cost of electrical energy [Indicator 5]

7.3: Safety precautions while using electricity [Indicator 5]

Resources

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

Academic Integrity Policy

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

Behavioral Expectations

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

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

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

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

Attendance & Tardiness

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

Assignments & Classwork



Assignments and classwork will be assigned often and must be submitted on or before the due date. Late assignments can be submitted for a maximum of 50% up until the last week of the term. All late or missed assignments that are not turned in *before* the last week of the term will receive a zero.

Grading

Foundation Science 5 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:

Assignments/Notebook/Lab	25%
Quiz/Test	15%
STEM	10%
Behavior	10% (program mandated)
Midterm (Summative) Exam	20% (program mandated)
Final Exam	20% (program mandated)

Recommendations for Success

All students are encouraged to try the following:

1. Read, read, read the textbook. Oftentimes, reading the text once is not enough even for native English speakers. You may need to read the material multiple times to understand. By reading along at home with the lessons taught at school (typically only a few pages per night), students will be able to responsibly manage the material and gain the most from the course.
2. Search online, in either Thai or English, if you don't understand a topic discussed in class or simply to get a better understanding of the topic.
3. Do **not** copy your classmates work; struggle through and do the work on your own! This is how you learn!
4. Come see the teacher outside of class time for assistance.
5. Do the review questions at the end of the chapter and see the teacher for the answers.
6. Study the notes and vocabulary at least a few minutes every day, such as in homeroom or during any free time you might have in other classes.
- 7.



ST20205 Universal Science 5

Teacher Mr. Michael Dew

Contact Laboratory office, 2nd Floor Colombet Bldg.

Class Time EP-M 3/1: Wednesday 5th period; Thursday 3rd period
EP-M 3/2: Tuesday 7th period; Thursday 7th period
EP-M 3/3: Monday 1st period; Tuesday 1st period

Credits 1.5 (2 classes per week)

Course Description

The Universal Science course encompasses a multidisciplinary approach to learning. The course embraces the unique spirit of Assumption in delivering both a dynamic and holistic approach to learning; addresses the needs of individual students at varying academic levels. The new teaching and learning of science focuses on students themselves, allowing them to discover the knowledge mostly by themselves. With their fundamental knowledge and the results from their scientific investigations, students can construct their own principles, conceptual ideas and understandings systematically. Universal science topics include chemical equations, types of chemical reactions, endothermic and exothermic reactions, organic chemistry, introduction to acids, bases, and salts, polymers, ceramics, nuclear reactions, and nuclear fusion and fission. Enhanced knowledge and understanding of scientific processes and developing skills in observation, experimentation and the interpretation of data, and production of conclusions. Students will understand the importance of applying knowledge to real-life situations with responsibility, honesty, integrity, discipline, creativity, self-sufficiency, a scientific mind and attitude. See course outline and objectives below.

Textbook

Focus Smart Plus Science Mathayom 3
Fusion: Matter and Energy. Holt McDougal

Course Outline & Objectives

Chapter 1: Heredity

- 1.1 Physical traits and characteristics
- 1.2 Phenotypes
- 1.3 Genes

Chapter 2: Genetics

- 2.1 DNA structure
- 2.2 Chromosomes and Genes
- 2.3 Phenotype and genotype
- 2.4 Punnett squares and Mendelian genetics



- 2.5 Mitosis and Meiosis

Chapter 3: Genetic Disorders

- 3.1 Types of genetic disorders
- 3.2 Genetic disorder symptoms and treatments

End of Mid-Term Exam Content - Start of Final Exam Content

Chapter 3: Genetically Modified Organisms

- 3.1 What are GMO - Genetically Modified Organisms
- 3.2 How are GMO products produced
- 3.3 Advantages and Disadvantages of GMO products
- 3.4 Environmental impacts and issues of GMO products

Chapter 4: Ecology, Ecosystems, and Biodiversity

- 4.1 Principles of Ecology
- 4.2 Relationships of Ecosystems and Organisms
- 2.3 Food Webs and Ecosystem energy
- 2.4 Ecological Succession and Biodiversity

Resources

- | | |
|----------|--|
| Required | <ul style="list-style-type: none">• 1 notebook• 1 plastic folder for course materials• Science Text Book• Science work Book• Red and blue pen. Liquid paper. Pencils.• Internet -Schoology• Headphones• Ruler |
|----------|--|

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

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 & Class work

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:

Assignments/Classwork/Lab	30%
Quiz/Test	15%
Notebook	5%
Behavior	10% (program mandated)
Midterm (Summative) Exam	20% (program mandated)
Final Exam	20% (program mandated)

Recommendations for Success

All students are encouraged to try the following:

1. Read as much as possible, your textbook and workbook at home. Reading the text once is not enough! Even native English speakers usually need to read more than once. You may need to read the material multiple times to understand. Read and study at home the lessons taught at school.
2. (Students will be able to responsibly manage the material and gain the most from the course.
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 your classmates' work; struggle through and do the work on your own! This is how you learn!
5. Come see the teacher outside of class time for assistance if you need help.
6. Do the review questions at the end of the chapter and see the teacher for the answers. Study the notes and vocabulary at least a few minutes every day, such as in the homeroom or during any free time you might have in other classes.



ST20225 Supplemental Science 5

Teacher Mr. Michael Salutin
Contact EP Teacher Room, 2nd Floor, Colombet Bldg.
Class Time EP-M 3/1~3 Mon, Tue, Wed
Credits 0.5 (1 Class/week)

Course Description

This is a supplemental course designed to give students experience in the development of a STEM project. Students will learn about the scientific method, including experimental design. Students will engage in hypothesis formulation, literature review, conducting an experiment, data collection and analysis, and writing/presentation of a final report with a physical model.

Textbook

- *There is no textbook for this class. The teacher will provide all learning materials.*

Course Outline & Objectives

Unit 1: Introduction to Scientific Method

- Hypothesis
- Theory
- Independent and Dependent Variables
- Bias
- Controlled and Placebo-Controlled Experiments
- Correlations
- Evaluating Scientific Information

Unit 2: Literature Review

- What is it?
- How to do it
- Practical Experience: Conducting their own literature review

Unit 3: Conducting the Experiment

- Collecting and analyzing data

Unit 4: Final Report

- How to present data
- Writing the final report
- Presenting the final report

Resources

- | | |
|-----------|--|
| Required | <ul style="list-style-type: none">• Assumption Notebook (2)• Binder/ folder |
| Suggested | <ul style="list-style-type: none">• tablet |



Academic Integrity Policy

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

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

Behavioral Expectations

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

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

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

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

Attendance & Tardiness

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

Homework & Classwork

Homework and classwork will be assigned often and must be submitted on or before the due date. Late assignments can be submitted for a maximum of 50% up until the last week of the term. All late or missed assignments that are not turned in *before* the last week of the term will receive a zero.



Grading

This class follows to the Assumption College grading scale:

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

Evaluation and Assessment

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

Homework/Classwork/Projects	100%
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Recommendations for Success

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

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



HP23101 Foundation Health Studies 5

Teacher: Mr. Grant Shorten

Contact: Teachers Room, 2nd Floor Colombet Building.

grant.sh@assumption.ac.th

Class Time: EP-M3/1-3

Credits: 0.5

Course Description

The M3 Foundation Health Studies course is designed to provide students with a comprehensive understanding of the fundamental aspects of health and well-being. This course focuses on three core areas: human growth and development, the value of self and family, and health promotion. This course is essential for students seeking to build a solid foundation in health studies, equipping them with the knowledge and skills necessary for a healthy and balanced life.

Textbook

Think Big Plus

External Resources

Course Outline & Objectives

1. Understanding Nature of Human Growth and Development:

- Explore the physical, emotional, cognitive, and social development stages from infancy to adulthood.
- Examine key theories and models of human development.
- Understand the factors that influence growth and development, including genetics, environment, and lifestyle.

2. Teenagers and Adjustment:

- Develop self-awareness and self-esteem through activities and discussions.
- Learn the importance of family dynamics and healthy relationships.
- Receive comprehensive sex education, including anatomy, reproduction, and safe practices.
- Acquire essential life skills such as communication, decision-making, and stress management.

3. Therapeutic Diet:

- Study the principles of health promotion and strategies to maintain a healthy lifestyle.
- Engage in physical fitness activities to understand the benefits of regular exercise.
- Learn about common diseases and conditions, their prevention, and the role of vaccinations and screenings.



- Understand the impact of nutrition, sleep, and mental health on overall well-being.

Learning Outcomes:

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

- Comprehend the stages and factors influencing human growth and development.
- Value personal health and well-being, and understand the significance of family and relationships.
- Demonstrate knowledge of sexual health and responsible behaviors.
- Apply life skills to enhance personal and social functioning.
- Promote health and wellness through physical fitness and disease prevention practices

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

grant.sh@assumption.ac.th

Resources Required

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.

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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.

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:

$Final\ Score \geq 80\%$	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:

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



Recommendations for Success

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

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



ST23103 Technology and Computing Science 3

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.

Advanced use of algorithms in the design and planning stage of programs

Logic Gates, Boolean operations and advanced number systems

Development of computational thinking to use in 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

Topics include:

Indicators [1, 2, 3]

Roles and Operation of Robots [Indicator 1, 2]

Variable Arrays.

Use of Boolean operations in robot programming

Representing Data hexadecimal, binary and denary

Creation and Development [Indicator 1, 2]

Advance constructions

Robotic appendages

Sensors: acting on and reacting to the environment

Programming [Indicator 2, 3]

Intermediate level programming

Wires and “MyBlocks”

Advancement of the concept of planning to program (pseudo-code and control flow

Logical systems)

Computational thinking in the field of problem solving

Resources

- Required
- 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:

<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:

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.



ST20255 & ST20256 Computer for Project 1 & 2

Teacher Mr. Matt Harris
Contact Location: 5th Floor Computer Lab

Class Time EP-M 3/1: Thursday 10:20 – 13:00
 EP-M 3/2: Monday 9:20 – 11:10

Credits 1.0

Course Description

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

Students will build a repository of knowledge about computer science, the python programming language, and how python can be applied to solve problems. A thorough exploration of the features of the python programming language will be conducted. Students will be introduced to principles of computer science such as program design, abstraction, and performance. Students will apply knowledge to create interesting programs.

Course Outline & Objectives

Topics include: [Indicator 1,2]

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

Programming
Week 1-2: Programming languages, Algorithms, Data types
Week 2-4: Data Structures and Control flow
Week 5-7: Functions
Midterm Exam (Week 8 and 9; Dec 15-23)
Week 10-13: OOP, Modules, File I/O, Error Handling
Week 14-15: Program design
Final Exam (Week 16; Feb 8-12)

Resources

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

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

Evaluation and Assessment

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

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

Recommendations for Success

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

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



OC23101	Foundation Occupational Works 5
Teacher	Dr. Hermann Gruenwald
Contact	EP Teacher Room, 2 nd Floor Colombet Building hermann.gr@assumption.ac.th
Website	https://classroom.google.com/c/NjkyMjI3ODA3MzQx
Text Book	Thrakhupt, V. (2017). Occupations and Technology Mathayomsuksa 3 Institute of Academic Development (IAD), ISBN 8 854515 468303
Class Time	M3/1 Wednesday 08:30 - 09:20 M3/2 Wednesday 09:20 - 10:10 M3/3 Tuesday 08:30 - 9:20
Credits	0.5

Course Description

During M3 semester one, the students will learn about teamwork, management strategies and ethics within the workplace. They will also gain basic knowledge about caring for a variety of fabrics and maintenance of clothing.

There will be a focus on cooking this term and students will learn about set menus from Thailand and other countries. Subsequently, they will plan, design and prepare and cook meals under supervision and with guidance.

Finally, students will learn about craftwork made from local materials and identify the tools and techniques needed to produce natural and eco-friendly packaging.

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: Work for a living (*Indicator 1, 2, 3*)

- Learn about efficient teamwork and apply during group-working opportunities.
- Identify management skills and apply them to problem solving.
- Understand about morals and ethics in work



- Recognize how to use resources in work.

Unit 2: Clothes and cutting (*Indicators 1, 2*)

- Learn general knowledge about cleaning and treatment of different fabrics and costumes such as silk, cotton, polyester.
- Identify clothing care symbols and interpret them into instructions.
- Practice maintenance and care of clothing such as washing, drying, folding and keeping clothes.

Unit 3: Set menu (*Indicators 1, 2, 3*)

- Recognize different types of set menus from various cultures, cultural dining styles and components of a typical western set menu. Test knowledge about set menus.
- Research and present set menus from different regions of Thailand.
- Prepare for cooking a set menu by researching the cooking procedure and by identifying the equipment and ingredients required.
- Cook a set menu and apply cooking procedures and preparation techniques.

Unit 4: Craftwork (*Indicator 1, 2, 3*)

- Understand the benefits of craftwork.
- Identify materials and tools needed to make craftwork.
- Research packages made from natural material.
- Create packaging from natural material.

Resources

Required	<ul style="list-style-type: none">• AC three ring binder A4 with clear front pocket and 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">• Garments to practice folding in unit 2• Craftwork materials or items for unit 4• Cooking equipment and ingredients for unit 3 <p><i>The above will be requested a week in advance of use</i></p>

Academic Integrity Policy

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acknowledgement when repeating another's idea, phrase, sentence or paragraph, or failure to give appropriate acknowledgement when paraphrasing any of those.

Behavioral Expectations

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

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



Evaluation and Assessment

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

Behavior & Participation	10%	Affective Domain
STEM	10%	Formative
Class Work	20%	Formative
Home Work	20%	Formative
		50% Formative
Midterm Exam	20 %	Exams
Final Exam	20%	Exams
	100%	TOTAL

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