



MA30101 Foundation Mathematics 1

Teacher	Mr. Shiv Kumar
Contact	Science Lab, 2 nd Floor Colombet Building. skkumarshiv100@gmail.com
Class Time	EP-M4/1: Wednesday Period 3, Friday Period 2 EP-M4/2: Tuesday Period 1, Thursday Period 6
Credits	1.0

Course Description

Before midterm exams:

Real number system, set of real numbers and properties of real number, work on polynomials with one variable, working with inequalities, one variable inequality, two variable inequality quadratic inequality, square root inequality and, absolute value inequality.

After midterm exams:

After the midterm exams, the topic: exponents, rational exponents, law of rational exponents and exponential equations along with the topics such as set theory and inductive and deductive reasoning.

In general, the key competencies for the math course are: 1. Communicative ability 2. Thinking ability 3. Problem solving ability 4. Ability to use life skills 5. Technological ability
The key process skills are: 1. Problem solving 2. Reasoning 3. Communicating the meaning 4. Connecting 5. Creative thinking

Textbook

[Book 1] Barron's SAT Math Level 1, 13th Edition.

[Book 2] IGCSE Cambridge International Mathematics Extended (0607), 2015 Edition * *For new students, or those who have lost this EP3 textbook, I will have a shared online version.*

Additional teacher handouts

Online resources

Khan Academy, Kahoot and Schoology

Course Outline & Objectives

Learning Unit 3: **Real Numbers [Strand 1, Standard MA1.1, Indicators S.4/3]**, Book 1
Ch. 3 & 9F

1. Real Number system and properties
2. Inequalities:
 - Properties of inequalities
 - Inequality solutions on a number line or interval notation
 - Solving inequality with one variable and quadratic inequalities
 - Solving radical inequalities (and equations)
 - Solving graphical inequalities
3. Absolute value: solving absolute value equations & inequalities

End of Midterm Exam Content – Start of Final Exam Content



Learning Unit 4: **Rational exponents [Strand 1, Standard MA1.1, Indicators S.5/1]**, Book 1 Ch. 6

1. Laws of indices (basic, negative and fractional)
2. Solutions to exponential equations
3. Scientific notation
4. Dealing with surds

Learning Unit 1: **Sets [Strand 1, Standard MA1.1, Indicators S.4/1]**, Book 1 Ch. 2

1. Types of numbers & sets and their notation
2. Subsets and power sets

Learning Unit 2: **Reasoning [Strand 4, Standard M4.1, Indicators S.4/1]**, Class notes

1. Inductive Reasoning
2. Deductive Reasoning

Resources

- | | |
|-----------|---|
| Required | <input type="checkbox"/> At least 3 notebooks (2 white, 1 pink) |
| | <input type="checkbox"/> Scientific calculator (not a phone-based application) |
| | <input type="checkbox"/> Ruler |
| | <input type="checkbox"/> Glue stick, stapler, or tape |
| Suggested | <input type="checkbox"/> Many different colored pens/markers/highlighters |
| | <input type="checkbox"/> Electronic Thai-English translator (not a phone-based application) |

Academic Integrity Policy

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

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

Behavioral Expectations

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

Behavior is monitored every day as per the class rules that are set out at the beginning of the academic year (see the front of your note books). At the end of the semester the average is taken and used for the student's behavior score (10%). Students *earn* the scores they receive.

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



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

Attendance & Tardiness

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

Homework & Classwork

Homework and classwork will be assigned often and must be submitted on or before the due date. All late or missed assignments that are not turned in *before* the last week of the term, get 0%.

Grading

This course follows to the Assumption College grading scale:

<i>Final Score</i> ≥ 80%	4.0
75% ≤ <i>Final Score</i> < 80%	3.5
70% ≤ <i>Final Score</i> < 75%	3.0
65% ≤ <i>Final Score</i> < 70%	2.5
60% ≤ <i>Final Score</i> < 65%	2.0
55% ≤ <i>Final Score</i> < 60%	1.5
50% ≤ <i>Final Score</i> < 55%	1.0
<i>Final Score</i> < 50%	0.0

Evaluation and Assessment

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

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



Recommendations for Success

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

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



MA30213 Universal Mathematics 1

Teacher Mr. Robert John Sylvester III

Class Time EP-M4/1: Mon, Period 4; Thurs, Period 6

EP-M4/2: Mon, Period 7; Thurs, Period 3

Credits 1

Course Description

Thailand's Basic Education Core Curriculum B.E. 2551 (A.D. 2008) prescribes the mathematical understanding and skills for grades 10 to 12. The following table shows how MA20221 is related to the Ministry of Education's standards. The topics explored by each MA20221 unit are highlighted in **bold type**.

Textbook

Higher Level Mathematics Pearson Baccalaureate: Developed for IB Diploma

Teacher will also supply additional hand outs and online learning material (Khan, Kahoot, YouTube videos, etc)

Unit	Topic
1	Sets 1. Types of Sets 2. Equality of Sets 3. Venn-Euler Diagram 4. Operations of Sets: Union, Intersection, Complement and Difference 5. Members of finite sets and solutions
2	Foundation of Number Theory 1. Division without remainders 2. Procedure for division 3. Greatest Common Divisor (GCD) 4. Least Common Multiple (LCM)

Basic Resources

Pen, pencil, ruler, eraser, calculator.

White notebook, A4 plastic portfolio (to keep all student work and handouts)

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 each semester, the points are accumulated and used for the student's behaviour score (10%).



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 be subject to a penalty (deduction of marks).** 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	25%
Tests	25%
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 do not understand a topic discussed in class or simply to get a better understanding of the topic.
4. Do not copy the work of your classmate's 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.



HP30101 Foundation Health Studies & Physical Education 1

Teacher Mr. Brian Mallon, Health & Physical Education

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

Credits 0.5

Course Description

Students will study a Health component and a Physical Education component under the one unit in M4.

Students will learn the process of maintaining working efficiency of organ systems, enforcement process and workings of the integumentary system, skeletal and muscular systems, methods for planning health care according to conditions, growth, and development of oneself and family, family, peer and social development. Students will learn the cultural factors affecting sexual behaviors, sexual deviation and ways of life in society. Students will discover the nature of emotions, occurrence of sexual emotions, and strategies to deal with the prevention of sexually transmitted infections.

Students will acquire the skills on how to reduce conflicts occurring between students or youth in the community, recognize advertisements promoting physical health and propose methods to prevent illnesses and death in Thai people.

Students will continue to discover foundation physical education with a focus on individual ability to increase team capacity. At the same time, students have to show movements creatively, participate in recreation activities outside schools, and consider the effects on other people by showing good manners, observing with enthusiasm, sportsmanship and admiring values and beauty of sports.

Students will establish knowledge and understanding, practical skills, problem-solving skills, decision-making skills, value to create knowledge, understanding to real-life situations with morality, ethics, honesty, disciplines, responsibility, being free from addictive substances and allurements, democracy and justice.

Textbook

No textbook required for this unit

Physical Education Indicators

1. Play/model at least 1 Thai sport and 1 international sports individually and on teams.
2. Show movements creatively.
3. Joint recreation activities outside schools and use the principles and concepts to improve and develop the quality of one's life and society.
4. Exercise and play sports regularly and properly to one's capacity, and use one's ability to increase team capacity, reduce ego, and consider effects to the society.
5. Explain and practice rights, rules, regulations, and tactics during the games and competitions with other people, conclude them as guidelines, and use them in daily life continuously.



6. Express good manners of watching, playing, and competing sports with sportsmanship and use them in daily life continuously.
7. Join physical activities and play sports happily and admire the values and beauty of sports.

Health Indicators

1. Explain reinforcement process and process of maintaining working efficiency of organ systems.
2. Plan health care according to growing conditions and development of oneself and other people in the family.
3. Analyze the influence of family, peers, society, and culture affecting sexual behaviors and ways of life.
4. Analyze sexual values in Thai and other cultures.
5. Choose proper skills to prevent and reduce conflicts and to solve sexual and family problems.
6. Analyze causes and effects of conflicts occurring between students or youth in the community and propose the solutions.
7. Analyze personal roles and responsibilities to health promotion and disease prevention in the community.
8. Analyze influence of health advertisements for consuming selection.
9. Conduct oneself according to consumer rights.
10. Analyze causes and propose methods to prevent illnesses and death in Thai people.
11. Analyze the concept about different types of movements when playing sports.

Course Outline & Objectives

Physical Education Component

1. Exercises and Playing Sports / Physical Fitness Test / Games [Indicators – 1, 2, 6, 7]

- Test of Physical Fitness
- Exercises, playing sports or games

2. Movements in Exercising and Playing Sports Creatively [Indicators – 1, 2, 3, 4, 5, 6, 7]

- Physical movement in practicing athletic skills and exercises.
- Physical connection in practicing athletic skills and exercises.
- Physical connection and movement to warm-up for athletics.
- Physical connection and movement in practicing badminton skills
- Physical connection and movement in practicing basketball skills

3. Badminton: Rules / Regulations / Competitions Methods [Indicators – 1, 2, 4, 5, 6, 7]

- Rules and regulations in competitions.
- Planning for attacks and defenses.
- Types of Gameplays (e.g. teams/doubles, mixed doubles)
- Good manners of watching and playing sports
- Sportsmanship
- Good personalities
- Playing sports happily
- Admiring the value and beauty of sports



- Etiquette
- Basic Movements

4. Basketball: Rules / Regulations / Competitions / Skills [Indicators – 1, 2, 3, 4, 5, 6, 7]

- Team playing and competition.
- Tactics of attacking-defending.
- Sportsmanship
- Cooperation in participating activities.

Health Component

1. Planning of One’s Health Care [Indicators – 2, 3, 5, 6, 7, 10,]

- Body Mass Index
- Definition and importance of planning of one’s health care
- Factors affecting growth and development of teenagers
- Methods of one’s health care

2. Work Efficiency of System of Body Composition [Indicators 1]

- Integumentary system
- Skeletal system
- Muscular system

3. Teenagers and Sexual Behaviors [Indicators – 2, 3, 4, 7, 10]

- Definition and importance of teenagers and sexual behaviors
- Factors affecting sexual behaviors
- Sexual deviation

4. Sexual Transmitted Infections [Indicators – 1, 2, 3, 4, 5]

- Definition and importance of sexually transmitted infections
- HIV / AIDS
- Venereal diseases

Resources

- | | |
|-----------|---|
| Required | <ul style="list-style-type: none">• School Physical Education Uniform (a note explaining why the student is out of uniform is required or a behavior score of 0 for this lesson) <p>Pink resource booklet for note taking (Reminder that any handouts must be stapled or glued into the pink resource).</p> |
| Suggested | <ul style="list-style-type: none">• Fitness and sport activities at least 1-hour each day |

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Behavioral Expectations

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

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

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

Attendance & Tardiness

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

Homework & Classwork

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

Grading

This course follows to the Assumption College grading scale:

$Final\ Score \geq 80\%$	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:

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

Recommendations for Success

Physical Education is to be enjoyed. All students are encouraged to try the following:

1. Look to do some form of Physical Activity every day.
2. Look to visit parks and tracks where the required fitness testing can be practiced.
3. Come see the teacher outside of class time for assistance.
4. Try new sports. We all have different sports we like and different sports we are good at. We encourage students to learn more about their favorite sports on ‘YouTube’ and other media platforms. If you never try, you will never know if you like it!
5. See PE and movement as an *opportunity* to improve your health and well- being, not a chore. Your teenage years are the most important years to be active and can affect the quality of life you have as an adult.



EN30101 M4 Foundation English

Teacher Mr. Jonas Godson

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

Credits 1.5

Course Description

The Foundation English course focuses on laying solid groundwork on basic grammar, speech, reading and vocabulary skills. Using an integrated learning methodology, this course aims to give students the more advanced skills needed to converse in English.

For reading, the focus will be on predicting, scanning, skimming, inference and sequencing. Writing will be more focused on essays and complex paragraphs. Speaking and listening will be integrated into activities, but phonetics and correct pronunciation will be highlighted. There will be an opportunity for students to demonstrate and apply their knowledge in group and individual projects.

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

Textbook

Cambridge Prepare B2
Level 7

Course Outline & Objectives

Weeks 1 & 2: p. 1-22. Unit 1: Creative Minds

- Vocabulary:** Understanding meaning from context.
Matching words and definitions
Applying learned vocabulary in full sentences.
- Reading:** Skimming to make predictions.
Scanning for specific information
Sequencing information
Identifying main ideas and supporting information from text.
- Writing:** Synthesizing information in complete paragraphs.
Write compare and contrast paragraphs.
Writing an opinion paragraph
- Grammar:** Modal verbs, continuous tenses, prefixes

Weeks 3 & 4: p. 23-46. Unit 2: Addicted to Fashion

- Vocabulary:** Understanding meaning from context
Matching words and definitions
Applying learned vocabulary in full sentences
- Reading:** Skimming to make predictions
Scanning for specific information
Sequencing information
Identifying main ideas and supporting information from text
- Writing:** Synthesizing information in complete paragraphs



- Write compare and contrast paragraphs
Writing an opinion paragraph
- Grammar: First and second conditionals, pronoun references, modifiers, adverbs of manor
- Weeks 5 & 6: p. 47-68. Unit 3: All in the mind**
- Vocabulary: Understanding meaning from context.
Matching words and definitions
Applying learned vocabulary in full sentences
- Reading: Interpreting maps
Skimming to make predictions
Identifying main ideas
Identifying supporting ideas
Identifying meaning from context
- Writing: Thesis statements
Writing descriptive paragraphs
- Grammar: Past Simple vs. past perfect, used to
- Weeks 7 & 8: p. 69-92. Unit 4: Take it easy**
- Vocabulary: Understanding meaning from context
Matching words and definitions
Applying learned vocabulary in full sentences
- Reading: Interpreting maps
Making predictions
Scanning for key details
Interpreting information from a multimodal context
Understanding a process
- Writing: Introduction paragraphs
Opinion paragraphs
- Grammar: Using parallel structures, conjunctions, sequence words
- Week 9: Project. Tourism in Thailand (Handouts in class)**
Students will use previously taught skills and vocabulary to produce a written guide to Thailand for tourists. They will then present this to the class and answer questions.
- Week 10&11: Review and Midterm exams.**
- Content: Modal verbs, continuous tenses, conditionals, past simple vs. past perfect
Sequencing and synthesizing information.
Thesis statements
Opinion paragraph (relating to texts)
Reading and understanding non-text information (i.e., maps)
Taught vocabulary

End of Midterm Exam Content – Start of Final Exam Content

Weeks 12 & 13: p. 93 -114. Unit 5: Past times

- Vocabulary: Understanding meaning from context
Matching words and definitions
Applying learned vocabulary in full sentences
- Reading: Interpreting maps and charts
Predicting content from clues
Identifying main ideas
Identifying supporting ideas
Identifying meaning from context
- Writing: 3 paragraph essay about Geotourism



- Writing well developed body paragraphs
Cause and effect paragraphs
- Grammar: Mixed conditionals
- Weeks 14 & 15: p. 115 – 138. Unit 6: Totally emotional**
- Vocabulary: Understanding meaning from context.
Matching words and definitions
Applying learned vocabulary in full sentences.
- Reading: Responding to text and photos.
Using visual clues to make predictions
Identifying main and supporting ideas
Understanding meaning form context
Identifying events to complete a timeline
- Writing: Explanatory essay about literature
Concluding paragraphs
- Grammar: Similes, metaphors, and figurative language
- Weeks 16 & 17:.p. 138- 162. Unit 7: Telling Stories**
- Vocabulary: Understanding meaning from context
Matching words and definitions
Applying learned vocabulary in full sentences
- Reading: Responding to text and photos
Using visual clues to make predictions
Identifying main and supporting ideas
Understanding meaning form context
Interpreting a writer’s tone and meaning
- Writing: Using an outline to plan an essay.
Write a persuasive essay
- Grammar: Using taught grammar well in full essays
- Week 18: Project. Thailand’s Best Innovators and Inventors. (Handouts in class)**
Research, write and present a report on the best innovators and inventors that Thailand has produced. Students will use previously taught grammar, vocabulary and reading/ writing skills to produce this project.
- Week 19 & 20: Revision and Final Exams.**
- Content: Making predications on reading.
Writing a persuasive essay on a given topic
Reading comprehension and inference
Taught vocabulary
Mixed conditionals, similes, metaphors, and figurative language

Resources

- | | |
|-----------|---|
| Required | <ul style="list-style-type: none">• At least 3 notebooks.• Dictionary (English to English, not a translating one)• Extra lines A4 paper for written assignments.• Access to a computer and internet. |
| Suggested | <ul style="list-style-type: none">• Many different colored pens/markers/highlighters |

Academic Integrity Policy

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



academic dishonestly lower the quality of the education and will not be tolerated. Students involved in any form of academic dishonesty, including any student supplying or allowing the copying to take place, will receive a zero.

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

Behavioral Expectations

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

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

Behavior is monitored every day as per the class rules that are set out at the beginning of the academic year (see the front of your note books). At the end of the semester the average is taken and used for the student's behavior score (20%). Students *earn* the scores they receive.

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

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

Attendance & Tardiness

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

Homework & Classwork

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



Grading

This course follows to the Assumption College grading scale:

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

Evaluation and Assessment

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

Projects	20%
Written Work	10%
Notebooks	10%
Participation in class	10%
Behaviour	10% (Programme Mandated)
Midterm Exam	20% (Programme Mandated)
Final Exam	20% (Programme Mandated)

Recommendations for Success

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

1. Read, read, read and read. The best way to learn English is to read literature. It helps with nearly every aspect of English. The best students are always the ones who *enjoy* reading. Find a book you like and keep at it. A little every day is a good way to start.
2. Watching American movies or TV shows with the English subtitles is a good way to improve your speaking and listening skills; it also helps with vocabulary too. When you come across a new word, just pause the movie and write it down in your vocabulary book.
3. Search online (in English) if you don't understand a topic discussed in class to get a better understanding of the topic.
4. Do **not** copy your classmate's work; struggle through and do the work on your own. This is how you learn.
5. Come see the teacher outside of class time for assistance.
6. Study the notes and vocabulary at least a few minutes every day, such as in homeroom or during any free time you might have in other classes.
7. If you do not understand then ask your friends, communication is vital for success in English, communicate with your classmates in English, you'll be surprised how quickly your English improves just by doing this.



EN30207 M4 English for Academic Achievement

Teacher: Mr. Jonas Godson
Contact: EP Teacher Room, 2nd Floor Colombet Building
jonasinthailand@gmail.com

Credits: 1.5

Course Description

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

Textbooks

Cambridge English Grammar in Use
Novel: Holes, Louis Sachar

Course Outline & Objectives

Weeks 1 & 2: English Grammar in Use: Unit 1 - 4

Scope and sequence:

- Present simple and present continuous
- Identifying the structure of a paragraph
- Generating ideas for writing
- Writing a topic sentence
- Making an outline
- Scanning for information

Weeks 3 & 4: English Grammar in Use: Unit 5 - 6, Holes novel: Ch. 1 - 2

Scope and Sequence:

- Past simple, past continuous, present perfect
- Generating ideas for writing
- Supporting ideas with details
- Organizing supporting sentences
- Choosing a title
- Writing the first draft
- Skimming text for details
- Thinking about what you know

Weeks 5 & 6: English Grammar in Use: Unit 7 - 12, Holes novel: Ch. 3 - 4

Scope and Sequence:



- Present perfect and continuous, for and since
- Generating ideas for writing
- Supporting ideas with details
- Organizing supporting sentences
- Skimming text for details
- Thinking about what you know
- Present perfect review

Weeks 7 & 8: English Grammar in Use: Unit 13 - 18, Holes novel: Ch. 5 - 6

Scope and Sequence:

- Present perfect and past, past perfect, past perfect continuous, have and have got
- Using conjunctions and transitional phrases
- Avoiding run-on sentences and sentence fragments
- Skimming text for details
- Understanding text organization

Week 9: English Grammar in Use: Review of material taught, Holes novel: Ch. 7 - 10

Scope and Sequence:

- Review of material taught in class
- Grammar quiz encompassing the material taught in class
- Novel summary writing of the first ten chapters

Weeks 10&11: Midterm exam.

Content:

- Present simple and present continuous, past simple, past continuous, present perfect, present perfect and continuous, for and since, past perfect and continuous, have and have got, used to
- Taught vocabulary
- Reading comprehension
- Writing an academic paragraph

End of Midterm Exam Content – Start of Final Exam Content

Weeks 12 & 13: English Grammar in Use: Unit 19 - 22, Holes novel: Ch. 11 - 14

Scope and Sequence

- Present tense for future, going to, will and shall
- Editing a paragraph
- Recognizing points of view
- Skimming text for details
- Summary writing from the novel

Weeks 14 & 15: English Grammar in Use: Unit 23 - 25, Holes novel: Ch. 15 - 16

Scope and Sequence:

- Future tenses (will, be going to, will be doing, will have done)
- Structuring an essay
- Writing a thesis statement
- Writing the topic sentence of body paragraphs
- Making an outline for an essay
- Skimming text for details



Weeks 16 & 17: English Grammar in Use: Unit 26 - 34, Holes novel: Ch. 17 - 20

Scope and Sequence:

- Model verbs
- Developing body paragraphs
- Writing an introductory paragraph
- Writing a concluding paragraph
- Skimming text for details
- Novel vocabulary and its use in context

Weeks 18: English Grammar in Use: Unit review for final exam.

Scope and Sequence:

- Review of material taught in class
- Grammar quiz encompassing the material taught in class
- Novel summary writing of chapters 11 - 20

Week 19&20: Final exam period

Content:

- Future tenses, model verbs
- Taught vocabulary
- Reading comprehension
- Writing multiple academic paragraphs on a topic

Resources

- | | |
|-----------|--|
| Required | <ul style="list-style-type: none">• At least 3 notebooks.• Dictionary (English to English, not a translating one)• Extra lines A4 paper for written assignments.• Access to a computer and internet.• A Gmail email account would be beneficial. |
| Suggested | <ul style="list-style-type: none">• Many different colored pens/markers/highlighters |

Academic Integrity Policy

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

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

Behavioral Expectations

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

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



Behavior is monitored every day as per the class rules that are set out at the beginning of the academic year (see the front of your note books). At the end of the semester the average is taken and used for the student’s behavior score (20%). Students *earn* the scores they receive.

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

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

Attendance & Tardiness

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

Homework & Class work

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

Grading

This course follows to the Assumption College grading scale:

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

Evaluation and Assessment

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

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



Recommendations for Success

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

1. Read, read, read, and read. The best way to learn English is to read literature. It helps with nearly every aspect of English. The best students are always the ones who *enjoy* reading. Find a book you like and keep at it. A little every day is a good way to start.
2. Watching American movies or TV shows with the English subtitles is a good way to improve your speaking and listening skills; it also helps with vocabulary too. When you come across a new word, just pause the movie, and write it down in your vocabulary book.
3. Search online (in English) if you do not understand a topic discussed in class to get a better understanding of the topic.
4. Do **not** copy your classmate's work; struggle through and do the work on your own. This is how you learn.
5. Come see the teacher outside of class time for assistance.
6. Study the notes and vocabulary at least a few minutes every day, such as in homeroom or during any free time you might have in other classes.
7. If you do not understand then ask your friends, communication is vital for success in English, communicate with your classmates in English, you'll be surprised how quickly your English improves just by doing this.



EN30241 M4 English for Life Skills

Teacher Mr. Jonas Godson

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

Credits 1.5

Course Description

The Foundation English course focuses on laying solid groundwork on basic grammar, speech, reading and vocabulary skills. Using an integrated learning methodology, this course aims to give students the more advanced skills needed to converse in English.

For reading, the focus will be on predicting, scanning, skimming, inference and sequencing. Writing will be more focused on essays and complex paragraphs. Speaking and listening will be integrated into activities, but phonetics and correct pronunciation will be highlighted. There will be an opportunity for students to demonstrate and apply their knowledge in group and individual projects.

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

Textbook

Cambridge Prepare B2 – Listening & Speaking focus
Level 7

Course Outline & Objectives

Weeks 1 & 2: p. 1-22. Unit 1: Creative Minds

- Vocabulary:** Understanding meaning from context.
Matching words and definitions
Applying learned vocabulary in full sentences.
- Reading:** Skimming to make predictions.
Scanning for specific information
Sequencing information
Identifying main ideas and supporting information from text.
- Writing:** Synthesizing information in complete paragraphs.
Write compare and contrast paragraphs.
Writing an opinion paragraph
- Grammar:** Modal verbs, continuous tenses, prefixes

Weeks 3 & 4: p. 23-46. Unit 2: Addicted to Fashion

- Vocabulary:** Understanding meaning from context
Matching words and definitions
Applying learned vocabulary in full sentences
- Reading:** Skimming to make predictions
Scanning for specific information
Sequencing information
Identifying main ideas and supporting information from text



Writing: Synthesizing information in complete paragraphs
Write compare and contrast paragraphs
Writing an opinion paragraph
Grammar: First and second conditionals, pronoun references, modifiers, adverbs of manor

Weeks 5 & 6: p. 47-68. Unit 3: All in the mind

Vocabulary: Understanding meaning from context.
Matching words and definitions
Applying learned vocabulary in full sentences
Reading: Interpreting maps
Skimming to make predictions
Identifying main ideas
Identifying supporting ideas
Identifying meaning from context
Writing: Thesis statements
Writing descriptive paragraphs
Grammar: Past Simple vs. past perfect, used to

Weeks 7 & 8: p. 69-92. Unit 4: Take it easy

Vocabulary: Understanding meaning from context
Matching words and definitions
Applying learned vocabulary in full sentences
Reading: Interpreting maps
Making predictions
Scanning for key details
Interpreting information from a multimodal context
Understanding a process
Writing: Introduction paragraphs
Opinion paragraphs
Grammar: Using parallel structures, conjunctions, sequence words

Week 9: Project. Tourism in Thailand (Handouts in class)

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

Week 10&11: Review and Midterm exams.

Content: Modal verbs, continuous tenses, conditionals, past simple vs. past perfect
Sequencing and synthesizing information.
Thesis statements
Opinion paragraph (relating to texts)
Reading and understanding non-text information (i.e., maps)
Taught vocabulary

End of Midterm Exam Content – Start of Final Exam Content

Weeks 12 & 13: p. 93 -114. Unit 5: Past times

Vocabulary: Understanding meaning from context



- Reading: Matching words and definitions
Applying learned vocabulary in full sentences
Interpreting maps and charts
Predicting content from clues
Identifying main ideas
Identifying supporting ideas
Identifying meaning from context
- Writing: 3 paragraph essay about Geotourism
Writing well developed body paragraphs
Cause and effect paragraphs
- Grammar: Mixed conditionals

Weeks 14 & 15: p. 115 – 138. Unit 6: Totally emotional

- Vocabulary: Understanding meaning from context.
Matching words and definitions
Applying learned vocabulary in full sentences.
- Reading: Responding to text and photos.
Using visual clues to make predictions
Identifying main and supporting ideas
Understanding meaning form context
Identifying events to complete a timeline
- Writing: Explanatory essay about literature
Concluding paragraphs
- Grammar: Similes, metaphors, and figurative language

Weeks 16 & 17:p. 138- 162. Unit 7: Telling Stories

- Vocabulary: Understanding meaning from context
Matching words and definitions
Applying learned vocabulary in full sentences
- Reading: Responding to text and photos
Using visual clues to make predictions
Identifying main and supporting ideas
Understanding meaning form context
Interpreting a writer’s tone and meaning
- Writing: Using an outline to plan an essay.
Write a persuasive essay
- Grammar: Using taught grammar well in full essays

Week 18: Project. Thailand’s Best Innovators and Inventors. (Handouts in class)

Research, write and present a report on the best innovators and inventors that Thailand has produced. Students will use previously taught grammar, vocabulary and reading/ writing skills to produce this project.

Week 19 & 20: Revision and Final Exams.

- Content: Making predications on reading.
Writing a persuasive essay on a given topic
Reading comprehension and inference
Taught vocabulary
Mixed conditionals, similes, metaphors, and figurative language



Resources

- | | |
|-----------|---|
| Required | <ul style="list-style-type: none">• At least 3 notebooks.• Dictionary (English to English, not a translating one)• Extra lines A4 paper for written assignments.• Access to a computer and internet. |
| Suggested | <ul style="list-style-type: none">• Many different colored pens/markers/highlighters |

Academic Integrity Policy

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Behavioral Expectations

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

Behavior is monitored every day as per the class rules that are set out at the beginning of the academic year (see the front of your note books). At the end of the semester the average is taken and used for the student's behavior score (20%). Students *earn* the scores they receive.

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

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

Attendance & Tardiness

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

Homework & Classwork

Homework and classwork will be assigned often and must be submitted on or before the due date for a score of 20 points. If the work is not done for the start of class, a maximum score of 15 will be possible. After more than one day has lapsed, a maximum score of 10 will be



available. Late assignments can be submitted for a maximum of 50% (10 points) up until the last week of the term. All late or missed assignments that are not turned in *before* the last week of the term will receive a zero.

Grading

This course follows to the Assumption College grading scale:

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

Evaluation and Assessment

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

Projects	20%
Written Work	10%
Notebooks	10%
Participation in class	10%
Behaviour	10% (Programme Mandated)
Midterm Exam	20% (Programme Mandated)
Final Exam	20% (Programme Mandated)

Recommendations for Success

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

1. Read, read, read and read. The best way to learn English is to read literature. It helps with nearly every aspect of English. The best students are always the ones who *enjoy* reading. Find a book you like and keep at it. A little every day is a good way to start.
2. Watching American movies or TV shows with the English subtitles is a good way to improve your speaking and listening skills; it also helps with vocabulary too. When you come across a new word, just pause the movie and write it down in your vocabulary book.
3. Search online (in English) if you don't understand a topic discussed in class to get a better understanding of the topic.
4. Do **not** copy your classmate's work; struggle through and do the work on your own. This is how you learn.
5. Come see the teacher outside of class time for assistance.
6. Study the notes and vocabulary at least a few minutes every day, such as in homeroom or during any free time you might have in other classes.
7. If you don't understand then ask your friends, communication is vital for success in English, communicate with your classmates in English, you'll be surprised how quickly your English improves just by doing this.



ST30101 Foundation Physics

Teacher Mr. Edward Aldworth

Contact EP Teacher Room, 2nd Floor Colombet Bldg.

Credits 1.5

Course Description

Study the definitions of force, work, and power, equations of relationship between force and work, equations of relationship between work and kinetic energy, potential energy, and laws of conservation of energy, impulse, impulsive force, change in momentum, one- dimensional collision, laws of conservation of momentum, two-dimensional collisions, explosion of objects, circular motion, centripetal force, simple harmonic motion, rotational motion, angular momentum, laws of conservation of angular momentum, laws of conservation of rotational kinetic energy, rotational motion relating to quantities of angular velocity, angular acceleration, torque, and linear motion equations.

Textbook

Physics, for Cambridge IGCSE

ISBN: 978-1-108-88807-3

Course Outline & Objectives

ST 2.2 S.5/1 Unit 1: Describing motion

1.1: Understanding Vectors and Scalars [S.5/1]

1.2: Understanding Speed

1.3: Interpreting Distance- time graphs [S.5/1]

1.4: Acceleration

1.5: Calculations involving speed and acceleration

ST 2.2 S.5/2 Unit 2: Forces and Motion

2.1: Balanced and Unbalanced forces

2.2: Mass, Weight and Gravity [S.5/6]

2.3: Inertia

2.4: Force, Mass and Acceleration

2.5: Newton III [SC 2.2 S.5/4]

End of Midterm Exam Content – Start of Final Exam Content

ST 2.2 S.5/3 Unit 3: Momentum and Collision

3.1: Impulse Force [S. 5/3]

3.2: Elastic Collision

3.3: Inelastic Collision

3.4: Collisions in 2D and Explosions



ST 2.2 S.5/7 unit 4: Current and Magnetism

4.1: Electric Current

4.2: Magnetic Fields and Magnetic Forces [S.5/8]

4.3: EMF [S.5/9]

4.4: Understanding Strong Forces and Weak Forces [S.5/10]

Resources

- Required
- Notebook
 - Scientific calculator (not a phone-based application)
 - 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 (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 Earth Stars & Universe follows to the Assumption College grading scale:

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

Evaluation and Assessment

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

Assignments/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.



ST30102 Foundation Chemistry

Teacher Mr. Michael Dew

Contact EP Teacher Room, 2nd Floor Colombet Bldg.

Class Time EP-M 4/1: Monday Period 1, Wednesday Period 2

Credits 1.5 (2 lessons per week)

Course Description

Foundation Chemistry is the first installment within the comprehensive Chemistry program offered here at Assumption College English Program. This course serves as the starting point in a student's progression within the subject as the course material will gradually advance into more complex and detailed areas of Chemistry. Within this semester, Atomic Structure, Bonding, Oxidation and Rules of Periodicity of Elements will be explained.

Demonstrations, computer-simulated activities and laboratory experiments will allow students to learn basic laboratory techniques, lab safety and get a hands-on experience of the theories and concepts learned in the lectures. As with many courses within the English Program, critical thinking skills are emphasized over those of rote learning and BMAT-style questions are a part of the evaluation process. The course will follow the content of BMAT Past Paper Worked Solutions (2003-2017) 2018 by Black Stone Tutors. The course is prerequisite to Universal Chemistry 1.

Textbook

- *Cambridge IGCSE & O Level Chemistry*
By Rose Marie Gallagher
and Paul Ingram

Supplementary:

- N/A

Course Outline & Objectives

States of Matter (Chapter 1)

- Particles
- Solids, Liquids, Gases
- The Particles in Solids, Liquids, Gases

Atoms and Elements (Chapter 2)

- Meet the Elements
- How electrons are arranged
- Isotopes and model of the atom

Atoms Combining (Chapter 3)

- Compounds, Mixtures, and Chemical Changes
- Ionic Bond
- Covalent Bond
- Giant Covalent Structures
- Metallic Bonds



Reacting Masses, and Chemical Equations (Chapter 4)

- Names and Formulas of Compounds
- Equations for Chemical Reactions
- Masses of atoms, molecules, and ions
- Calculations about mass and %

Using Moles (Chapter 5)

- The Mole
- Calculations from Equations
- Reactions involving gases
- The concentration of a solution
- Finding the Empirical Formula

Redox Reactions (Chapter 6)

- Oxidation and Reduction
- Redox and Electron Transfer
- Redox and oxidation numbers
- Oxidizing and Reducing agents

Electricity and Chemical Change (Chapter 7)

- Conductors and Non-conductors
- The principles of electrolysis
- Electrode Reactions

Reversible Reactions and Equilibrium (Chapter 10)

- Reversible reactions
- Shifting the Equilibrium
- The Haber Process
- The Contact Process

Acids, Bases, and Salts (Chapter 11)

- Acids and Bases
- Closer Look at Acids and Alkalis
- Reaction of Acids and Bases
- Neutralization and Oxides
- Making Salts

Resources

Required

- Assumption Notebook (2)
- Binder/ folder
- Scientific calculator (not a phone-based application)
- Ruler

Suggested

- Many different colored pens/markers/highlighters
- Electronic Thai-English translator (not a phone-based application)
- A Matayom-level chemistry practice book in Thai



Academic Integrity Policy

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Behavioral Expectations

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

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

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

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

Attendance & Tardiness

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

Homework & Classwork

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



Grading

Foundation Chemistry follows to the Assumption College grading scale:

$Final\ Score \geq 80\%$	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/Labs	30%
Class Test	20%
Behavior	10% (program mandated)
Midterm Exam	20% (program mandated)
Final Exam	20% (program mandated)

Recommendations for Success

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

1. Read, read, read the Chemistry 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. 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 the homeroom or during any free time you might have in other classes.



OC30104	Foundation Occupational Works 1	
Teacher	Dr Hermann Gruenwald	
Contact	EP Teacher Room, 2 nd Floor Colombet Building DrHermann365@gmail.com	
Website	https://app.schoology.com/course/6723003304/materials	
Class Time	EP-M4/2B: Wednesday	10:20-11:10
Credits	0.5	

Course Description

This introduction to the upper-mathayom Occupational Works course focuses on the basic principles of craftwork and the development of skills and creativity in producing craftworks. Group, pair, and individual work will incorporate theory of craftwork with a practical integration.

Students will work on projects which give them the opportunity for creativity and design. They will refine their research, planning, designing, and collaborative skills and apply them to producing craftwork that include woodwork and electrical work. Students will gain experience in using a variety of tools as well as developing their working processes.

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: Basic principles of craftwork (theory)

Unit 1.1: Woodwork and electrical work for crafts (*Indicators 1, 2, 3, 5*)

- Understand the working process for creating craftwork.
- Research and identify basic woodworking tools and their applications for crafts.
- Research and identify basic electrical tools / devices and their applications for crafts.

Unit 1.2: Design and selection of material for craftwork (*Indicators 1, 2, 3, 4, 7*)

- Recognize the basic principle and procedure for creating craftwork with creativity.
- Identify how to select appropriate materials for craftwork based on limitations of tools, equipment and funds (reuse or recycle items).

Unit 1.3: Creativity and intellectual property (*Indicators 3, 4, 5, 11*)

- Identify the process of designing with creativity using modern examples.
- Distinguish between various aspects of intellectual property protection such as; copyright, trademarks, geographical indication and patents.
- Compare tangible versus intangible intellectual property.
- Discuss methods of enforcing intellectual property rights if they are violated.



Unit 1.4: Creative Occupations (*Indicators 8, 9, 10*)

- Discuss types of creative occupations and guidelines for taking them up.
- Students determine if they have aptitude and interest in creative occupations.
- Identify ways to gain experience in creative occupations of interest.

Unit 2: Integration for craftworks (practice)

Unit 2.1: Craftwork for environmental conservation (*Indicators 3, 4, 6, 7*)

- Produce your own work from leftover materials to help reduce global warming effects (individual work).
- Create, design and select materials appropriate to the brief.

Unit 2.2: Useful crafts (*Indicators 1, 2, 3, 4, 5, 6*)

- Express in writing the inspiration to create the work.
- Write the plan for the project.
- Use woodworking skills to create an item in pairs.

Unit 2.3: Craft project (*Indicators 2, 3, 4, 5, 6, 7, 11*)

- Work in groups to create an electrical item.
- Present work by setting up an exhibition
- Take photographs of your craftworks and present your work online.

Resources

Required	<ul style="list-style-type: none">• Pink AC notebook A3• AC 3 ring binder portfolio A4• Basic stationary (pen, pencil, eraser, ruler, glue, sharpener etc)
Suggested	<ul style="list-style-type: none">• Various colored pens / markers / highlighters / pencils
Occasional	<ul style="list-style-type: none">• Electrical / woodworking tools• Specific craftwork materials or items• Leftover waste materials to construct projects <p><i>The above will be requested a week in advance of use</i></p>

Academic Integrity Policy

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

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



Behavioral Expectations

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

Behavior and participation is monitored during every class and points are deducted for misbehavior, non-participation or disruption to the class. This is averaged throughout the semester and calculated as a score of 10 at the end of semester.

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

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

Attendance & Tardiness

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

Homework & Class Work

Homework and class work will be assigned often, must be completed to a high standard and be submitted on or before the due date. Late assignments are subject to 50% less marks for each week they are late. All missed assignments will receive a zero and will dramatically reduce the averaged class work and homework scores of the individual.

Grading

This course follows 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:

Behavior & Participation	20%	Affective Domain
Formative 1 Class Work & Home Work	15%	Formative
Formative 2 Class Work & Home Work	15%	Formative
STEM	10%	Formative
Midterm Exam	20 %	Exams
Final Exam	20%	Exams

Recommendations for Success

1. Bring all the materials that are needed to complete projects on the day of class
2. Be creative and work hard for your own success and learning.
3. Do not be afraid to experiment and have fun studying
4. Plan projects carefully and have the required materials for your project
5. Keep your notebook tidy, attractive, and up-to-date and submit work on time
6. Check schoology.com for assignments and course materials and grades



ST30274 Computer for Graphic works

Teacher Mr. Matt Harris
Contact Location: 5th Floor Computer Lab
Class Time EP-M 4/2: Tuesday 12:10 – 1:00
Credits 1.0

Course Description

Creation of template and vector-based graphics, editing and wider use of vector graphics. Editing of photographs to a variety of levels, integration of Vector based graphics and photographs. Creation of graphics to be used in a number of different applications. Use information technology skills and processes which are data exploration, explanation, demonstration and analysis, discussion, group skills and process to create knowledge and understanding, thinking ability, exploring ability, ability to use technology, learning ability, communicative ability, systematic thinking ability, ability to use living skills and daily life with honesty, diligence, and endeavor.

Course Outline & Objectives

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

Computer for Graphic works [Indicator 1, 2, 3, 4]

Graphics	
Week 1-2: Intro, My profiles doc/ My idol presentation	
Week 2-4: Unit 1. Photoshop [Indicators 1, 2] Intro into Photoshop, editing images	
Week 5-7: Creation of images based on photographs, digital artwork	
Midterm Exam (Week 8 and 9)	
Week 10-12: Unit 2. Illustrator [Indicators 3, 4] Intro into Illustrator & Illustration	
Week 13-14: Vector Graphics	
Week 15: Unit 3. Integration of Graphic Systems [Indicators 1, 2, 3, 4]	
Create works based on Vectors and Image files	
Final Exam (Week 16)	

Resources

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

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

Plagiarism is the act of taking someone else's work or ideas and passing them off as one's own work or ideas. Examples of plagiarism include the failure to give appropriate



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

Behavioral Expectations

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

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

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

Attendance & Tardiness

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

Homework & Classwork

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

Grading

This course follows to the Assumption College grading scale:

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



Evaluation and Assessment

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

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

Recommendations for Success

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

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