



MA30102 **Foundation Mathematics 2**

Teacher	Mr. Shiv Kumar
Contact	Science Lab, 2 nd Floor Colombet Building. skkumarshiv100@gmail.com
Class Time	EP-M4/1: Monday Period-1, Wednesday Period-4 EP-M4/2: Monday Period-7, Wednesday Period-1
Credits	1.0

Course Description

Before midterm exams:

The first topics will be function and relations, domain and range of a function and different types of functions. Relations and an introduction to functions: definitions and terminology.

As with many courses within EP, critical thinking skills are emphasized over those of rote learning and where possible an investigative approach is used.

After midterm exams:

After the midterm exams, the different types of functions explored will continue in particular, drawing linear, quadratic, exponential, absolute and step functions. The topics of unit circle along with trigonometric value of 30, 45 and 60 degree and the application of trigonometry for height and distance problems.

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 1.1: **Relations** [Strand 1, Standard MA1.2, Indicators MA 1.2 S.5/1]

1. Ordered pairs
2. Cartesian product
3. Relations
4. Graphs of relations
5. Domain and range of a relation
6. Inverse of a relation



Learning Unit 2: **Functions** [Strand 1, Standard MA1.2, Indicators MA 1.2 S.5/1]

1. Definition of function
2. Domain and range of function
3. Value of a function $f(x)$

End of Midterm Exam Content – Start of Final Exam Content

Learning Unit 2: **Functions** [Strand 1, Standard MA2, Indicators MA 2.1 S.5/2]

continued..

4. Types of functions
 - Linear and Quadratic functions
 - Exponential function
 - Absolute value function
 - Step function

Learning Unit 3: **Trigonometry** [Strand 1, Standard MA2.1, Indicators MA 2.2 S.2/1]

1. trigonometric ratio
2. calculation of 30, 45 and 60 degree of trigonometric identities
3. relation between side and angles
4. height and distance problems

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.



MA30214 Universal Mathematics 2

Teacher: Robert John Sylvester III

epac.robertsylvester@gmail.com

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

Class Time: EP-M4/1: Mon, Period 5. Thurs, Period 2

EP-M4/2: Mon, Period 6. Fri, Period 2

Course Description

This Universal course for maths emphasizes algebraic functions, matrices, and analytical geometry. The goal is to explore a variety of math topics while also linking the visual component of mathematics with its algebraic written counterpart. The course offers many of the maths skills student will need to succeed at university. As with many courses within EP, critical thinking skills are emphasized. The course will closely follow the order and content of the Thai syllabus while also exposing students to international syllabus style word-based problems. The course is prerequisite to MA30215 Universal Maths.

Matrix and Determinant (3, 4, 5, 10) [Midterm Exam]

1. Types and Properties of a Matrix
2. Finding determinants of 2x2 and 3x3 Matrices
3. Finding inverse multiplication of matrix
4. Use of matrix to solve system of linear equations

Analytic Geometry* (6, 7, 8, 9, 10) [Final Exam]

- 3.1 Foundation of analytic geometry
 - 3.1.1 Distance between two points
 - 3.1.2 Midpoint between two points
 - 3.1.3 Slope of linear
 - 3.1.4 Parallel and perpendicular
 - 3.1.5 Linear relation graphs
 - 3.1.6 Distance between linear and point



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.

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
- Have a sense of public consciousness
- Possess discipline
- Be self-sufficient
- Be honest and upright
- Proud to be Thai
- Eager to learn
- Dedicated to work
- Be an AC gentleman

Attendance & Tardiness

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

Homework & Classwork

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



Grading

This course adheres to the Assumption College grading scale:

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

Evaluation and Assessment

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

Online	20%
Projects	10%
Homework/Classwork	20%
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.



HP30102 Foundation Health Studies & Physical Education 2

Teacher Mr. Brian Mallon

Contact EP Teacher Room, 2nd Floor Colombet Bldg.

Credits 0.5

Course Description

Students will study a Health component and a Physical Education component under the one unit in M4. Study the development of methods to promote physical and motor fitness, realize the value of the promotion of physical and motor fitness, apply the plan for practicing, improving, and developing physical fitness for health and motor fitness to analyze risky situations leading to the occurrence of accidents by taking part in promoting awareness and cooperation in solving problems from personal risky behaviors affecting community using knowledge and understanding in Community Safety Laws by developing methods for preventing injuries from accidents such as project presentation to promote the strength of community security, understand the development of various kinds of drug use including personal roles in solving problems of addictive substances by recognizing various sectors giving advices and treatment for drug addicted persons, analyze negative media with provocative presenting leading to violence in the society, find methods for preventing and solving problems of violence in the society by distinguishing between creative media and negative media, and recognize principles and process of correct rescue methods.

Study foundation physical education on the topics of the concept about different types of movements when playing sports, use of one's ability to increase team capacity, and play at least one type of Thai sports and international sports both individuals and teams. At the same time, students have to show movements creatively, participate in recreation activities outside schools, and use this idea to improve and develop ways of personal life and society including doing exercise and playing sports regularly and using personal ability to increase team capability, reduce ego, consider effects on other people, sport competition with other people by practicing rights, rules, regulations, and various tactics during the competitions, showing good manners of watching, and playing sports, sportsmanship, good personalities, playing sports happily, and admiring values and beauty of sports. Use process of establishing knowledge and understanding, practical skills, problem-solving skills, decision-making skills, value to create knowledge, understanding, and apply the knowledge 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

Course Outline & Objectives

PHYSICAL EDUCATION COMPONENT

1. **Badminton** [Indicators – 1, 2, 4, 5, 6,7]
 - Basic movement for badminton
 - Etiquette



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

- Games, exercises or playing sports
- Test of physical fitness

3. Movements in playing sports creatively [Indicators – 1, 2, 3, 4, 5, 6, 7]

- Physical Movement in skill practicing
- Physical connection in practicing badminton forehand skills
- Physical connection in practicing badminton backhand skills
- Physical connection in practicing badminton drive skills
- Physical connection in practicing badminton drop skills

4. Increase in Team Capacity [Indicators – 1, 3, 4]

- Serve
- Chop
- Smash
- Drop shot by changing directions

5. Rights / Rules / Regulations / Competing Methods [Indicators – 1, 2, 4, 5, 6, 7]

- Rules and regulations in competitions
- Planning for attacks and defenses

6. Competitions [Indicators – 1, 2, 3, 4, 5, 6, 7]

- Good manners of watching and playing sports
- Sportsmanship
- Good personalities
- Playing sports happily
- Admiring value and beauty of sports

7. Rules and Regulations [Indicators – 1, 2, 4, 5, 6, 7]

- Rules / Regulations / Competitions
- Team Playing

8. Futsal Competition [Indicators – 1, 2, 3, 4, 5, 6, 7]

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



HEALTH COMPONENT

Course Outline & Objectives

1. Health Promotion and Disease Prevention [Indicators 1, 2, 4, 8]

- Definition and importance of health promotion
- Guidelines for health promotion
- Guidelines for disease prevention

2. Emotions and Stress [Indicators 3, 4, 5]

- Definition and importance of emotions and Stress
- Proper stress and emotional management
- Effects of emotions and stress on health

3. Basic Knowledge of Sports [Indicators 9, 10]

- Basic movement skills for sport playing
- Movement science and efficiency promotion of sport playing

4. Safety and Living [1, 2, 4, 5, 6, 9]

- Safe use of medicines
- Dangers from addictive substances
- Problems of violence in children

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)• Pink resource booklet for note taking (Reminder that any handouts must be stapled or glue into the pink resource) |
| Suggested | <ul style="list-style-type: none">• Fitness and sport activities during lunch break each day |

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 (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 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 Grading

Formative	50%
Midterm Exam	20%
Final Exam	20%
Affective Domain	10%



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.



ST30231 Universal Chemistry

Teacher Mr. Michael Dew

Contact EP Teacher Room, 2- Floor Colombet Bldg.

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

Credits 1.5 (2 lessons per week)

Course Description

Universal Chemistry is the second installment within the comprehensive Chemistry program offered here at Assumption College English Program. This course serves as a continuation into a student's progression within the subject as the course material will build upon prior knowledge and advance into more complex and detailed areas of Chemistry. Within this semester, redox reactions, electrolysis, energy changes, rates of reaction, and reactivity of metals will be explored and discussed.

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.

Textbook

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

Supplementary:

- N/A

Course Outline & Objectives

Redox Reactions (Chapter 6)

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

Electricity and Chemical Changes (Chapter 7)

Conductors and non-conductors
The principles of electrolysis
Electrode reactions
Electroplating

The Rate of Reaction (Chapter 9)



Introducing reaction rates
Measuring reaction rates
Changing reaction rates
Chemical catalysts

Acids, Bases, and Salts (Chapter 11)

Acids and Bases
Reactions of acids and bases
Neutralization
Oxides
Making Salts
Chemical catalysts

The Behavior of Metals (Chapter 13)

Comparing Metals and Non-metals
Comparing Metals for reactivity
Metals in Competition
Reactivity Series
Rusting of Iron

Extracting and Using Metals (Chapter 14)

Metal Ores and Metal Extraction
Extracting Iron
Extracting Aluminum
Making use of metals
Metals and Alloys

Resources

- | | |
|-----------|---|
| Required | <ul style="list-style-type: none">• Assumption Notebook (2)• Binder/ folder• Scientific calculator (not a phone-based application) |
| Suggested | <ul style="list-style-type: none">• Ruler• 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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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.

Homework & Classwork

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

Grading

Foundation Chemistry follows to the Assumption College grading scale:

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



Evaluation and Assessment

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

Homework/Classwork/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.



ST30211 Universal Physics 1

Teacher Mr. Edward Aldworth

Contact EP Teacher Room, 2nd Floor Colombet Bldg.

Credits 2

Course Description

This course will explore the world of physics, delving into essential concepts that form the foundation of our understanding of the physical universe. We will begin with a deep dive into vectors and resultant forces, learning how to represent and manipulate these quantities to comprehend complex interactions. As we progress, we will study interconnected concepts of work, energy, and power, understanding how they govern motion, transformations, and the efficiency of various systems. Moving further, we'll explore the dynamics of momentum and collisions in two dimensions, unlocking the secrets of how objects interact in intricate scenarios. Finally, we'll venture into the captivating realm of current and magnetism, where the principles of electromagnetism come to life, influencing everything from electrical circuits to the fundamental behavior of magnets. This course promises to be an exciting and enlightening journey through the fundamental laws and phenomena that govern the physical world.

Textbook

Physics, for Cambridge IGCSE
ISBN: 978-1-108-88807-3

Course Outline & Objectives

Unit 1: Vectors

- 1.1: Analyse and calculate the resultant force of two vectors
- 1.2: Find the resultant force using the parallelogram method
- 1.3: Experiment and summarize the conditions of the three forces acting on the object.
- 1.4: Analyze and calculate relevant quantities when it comes to dealing with objects which affects balance.
- 1.5: Describe the meaning of the word friction and friction coefficient including experiments to find the friction coefficient.
- 1.6: Summarize the conditions that balance the forces on a rotating object and find the point of equilibrium for rotation.
- 1.7: Explain and describe the position of the center of mass and center of gravity.
- 1.8: Explain the meaning of coupling forces. Summarize the movement characteristics of an object when a pair of coupling forces act on it.

ST 2.2 S.5/2 Unit 2: Work, energy and power

- 2.1: Work and power.
- 2.2: Potential Energy
- 2.3: Kinetic Energy



2.4: Conservation of Energy

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 Collisions

3.1: Impulse

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 | <ul style="list-style-type: none">• 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
- Be an AC gentleman
- Eager to learn
- Dedicated to work

Attendance & Tardiness

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

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:

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

Evaluation and Assessment

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

Assignments/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.



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Course Syllabus – Semester 2/2023

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.



ST30256 Universal Biology 1

Teacher: Mr. Grant Shorten

Contact: Science lab, 2nd Floor Colombet Building.
epac.grant@gmail.com

Class Time: EP-M4/1: Tuesday Period-3, Wednesday Period -6, Thursday Period 3

Credits: 1.5

Course Description

This course delves into the fundamental aspects of life, from the intricate tapestry of biodiversity to the chemical substances that underpin the functioning of the human body. Through a comprehensive exploration of two units, students will gain a deep understanding of the living world and the chemistry within.

In the first unit, "Biodiversity," we unravel the extraordinary variety of life on Earth, encompassing species, genes, and ecosystems. We investigate the methodologies and scientific disciplines involved in the study of biodiversity, including ecology, biology, and conservation. Additionally, we explore the concept of "kingdoms of origin" and their relevance in understanding life's evolutionary relationships.

Moving into the second unit, "Chemical Substances in the Body and Digestion," we turn our attention to the chemical building blocks of life. From organic compounds like carbohydrates, lipids, proteins, and nucleic acids to essential inorganic compounds such as minerals and water, students will uncover the chemical framework supporting bodily functions. Furthermore, we delve into the significance of nucleic acids in genetic information storage and transfer.

This course also delves into the intricate chemical reactions occurring within the human body, which are pivotal for energy production, structural maintenance, and the support of various physiological processes. Understanding the structure and functioning of the gastrointestinal tract is vital to appreciate the digestion and absorption of nutrients, ensuring the body's energy and nutrient requirements are met.

By the end of this course, students will have gained a holistic perspective on life's diversity and the chemical underpinnings that make it all possible.

Textbook

Cambridge IGCSE & O level Complete Biology
External Resources

Course Outline & Objectives

Unit 1: Biodiversity

1. **Biodiversity:** Biodiversity, short for biological diversity, encompasses the wide variety of life on Earth, including different species, genes, and ecosystems. It's a measure of the richness and complexity of the natural world.



2. **Study of Biodiversity:** The study of biodiversity involves various scientific disciplines like ecology, biology, and conservation. Researchers examine the distribution, interactions, and conservation of different species and ecosystems to better understand and protect Earth's diverse life forms.
3. **Kingdoms of Origin:** In the context of biodiversity, "kingdoms of origin" typically refers to the classification of life into distinct domains or kingdoms based on evolutionary relationships.

Unit 2: Chemical Substances in the Body and Digestion

1. **Organic Compounds:** Organic compounds in the body include carbohydrates, lipids, proteins, and nucleic acids, serving as the building blocks for energy, structure, and genetic information.
2. **Inorganic Compounds:** Inorganic compounds such as minerals, ions, and water are essential for bodily functions, regulating processes like nerve signalling, fluid balance, and pH levels.
3. **Nucleic Acid:** Nucleic acids, such as DNA and RNA, store and transmit genetic information, playing a pivotal role in heredity and protein synthesis.
4. **Chemical Reactions in the Body:** Chemical reactions in the body involve processes like metabolism, where organic and inorganic compounds are transformed to provide energy, maintain structure, and support various physiological functions.
5. **Structure of Gastrointestinal Tract and Digestive Process:** The gastrointestinal tract is a complex system of organs, including the mouth, esophagus, stomach, and intestines, that work together to digest and absorb nutrients from food, ensuring the body's energy and nutrient needs are met.

If you have questions about the class or your grade you can email me at:
epac.grant@gmail.com

Resources Required

A plastic folder for worksheets.
White School Notebook
Red and blue pen
Ruler
Calculator

Academic Integrity Policy

Students are expected to adhere to the Assumption College student handbook. There is to be no plagiarism, no copying, and no cheating of any kind. These and any other acts of academic dishonesty lower the quality of the education and will not be tolerated. Students involved in any form of academic dishonesty, including any student supplying or allowing the copying to take place, will receive a zero. Students should be expected to earn their scores. Scores of pass should not be given unless the student has attained sufficient knowledge to earn a passing grade.

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



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

Behavioural Expectations

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

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

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

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

Attendance & Tardiness

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

Homework & Classwork

Homework and classwork will be assigned often and must be submitted on or before the due date for a full score of 10 points. Late work without excuse will be deducted at the rate of 10% per day until the maximum possible score is zero. All work must be turned in before the last week of each term. Late work is discouraged.

Grading

This course follows to the Assumption College grading scale:

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



Evaluation and Assessment

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

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

Recommendations for Success

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.



ST30274 Computer for Graphic works

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

Class Time EP-M 4/1: Tuesday 14:00 – 14:50
EP-M 4/2H: Wednesday 14:50 – 15:40

Credits 1.0

Course Description

Learn knowledge of programs for developing graphic works Adobe Photoshop & Illustrator. Understanding the software that is used for editing & manipulating imagery. 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. Creation of template and vector-based graphics, editing and wider use of vector graphics. 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: Intro Computer for Graphic Works
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 • EP Computer Lab

Academic Integrity Policy

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



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

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

Behavioral Expectations

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

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

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

Attendance & Tardiness

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

Homework & Classwork

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

Grading

This course follows to the Assumption College grading scale:

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



Evaluation and Assessment

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

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.



ST30105 Design & Technology

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

Class Time EP-M 4/1: Thursday 13:00 – 13:50
EP-M 4/2: Thursday 11:10 – 12:00

Credits 1.0

Course Description

To understand the key concepts of Design & Technology for living in a rapidly changing society; apply knowledge and skills in science, mathematics and other disciplines to creatively solve problem or develop work by using the engineering design process; select technology to use properly by taking into account impacts on life, society, and environment. Students will study the following topics: main concepts of technology, relationships of technology with other fields of study especially science or mathematics; evaluating its impact on humans, society, economy and environment so as to use the information as a guideline for developing technology. Students will apply many learning processes: attitude development process, knowledge and understanding development process, critical thinking process, practicing process and problem-solving process.

Course Outline & Objectives

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

Design & Technology [Indicator 1, 2, 3, 4]

Week 1: Introduction week

Week 2-4: **Unit 1.** Analyze the main concepts of technology and relationship of technology with other fields of knowledge especially science, or mathematics.

Week 5-6: Identify problems or needs that have impacts on society; gather and analyze information

Midterm Exam (Week 7 and 8)

Week 9-10: **Unit 2.** Design a solution by analyzing and comparing information; then, select essential information under the conditions and existing resources

Week 11-12: Test, evaluate, analyze and give reasons of problems or defects found within conditions scope; generate improvement alternatives

Week 13-14: **Unit 3.** Understand and use computational thinking concept to solve problems found in real life systematically and step by step; use information technology and communication for efficient learning, work, and problem solving.

Week 15: **Unit 4.** Apply computational thinking creatively to develop a project work which is integrated with other disciplines and is connected with real life.

[Indicators 1, 2, 3, 4]

Final Exam (Week 16)



Resources

- Required
- EP Computer Lab

Academic Integrity Policy

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

Behavioral Expectations

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

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

- Love for the country and the King, faith in religion
- Possess discipline
- 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
$75\% \leq \textit{Final Score} < 80\%$	3.5
$70\% \leq \textit{Final Score} < 75\%$	3.0
$65\% \leq \textit{Final Score} < 70\%$	2.5
$60\% \leq \textit{Final Score} < 65\%$	2.0
$55\% \leq \textit{Final Score} < 60\%$	1.5
$50\% \leq \textit{Final Score} < 55\%$	1.0
<i>Final Score</i> $< 50\%$	0.0

Evaluation and Assessment

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

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.



OC30104 Foundation Occupational Works 1

Teacher Dr Hermann Gruenwald

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

Website Google Classroom

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 craftworks 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	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	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. Don't be afraid to experiment and have fun studying
4. Plan projects carefully and have the required materials for your project
5. Keep your notebook tidy, attractive and up-to-date and submit work on time
6. Check schoology.com for assignments and course materials and grades



EN30102 Foundation English 2

Teacher Mr. Jonas Godson

Contact EP Teacher Room, 2nd Floor Colombet Bldg.
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. Starting with parts of speech and focusing on more complex grammar tenses, such as present perfect simple, present perfect progressive and past perfect simple, and then moving on to prefixes and suffixes, conditionals and comparative and superlatives.

For reading, the focus will be on more advanced reading skills and higher level critical thinking skills. Writing will be more focused on essays and complex, flowing paragraphs and connectives. Speaking and listening will be integrated into activities, but phonetics and correct pronunciation will be highlighted. There will be more of an emphasis on debating, rather than role-playing.

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

Textbook

Pathways. Reading, Writing and Critical Thinking 3 - Vargo & Blass.
Gateway B2

Course Outline & Objectives

Weeks 23 & 24: Unit 5: The Travel Business

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: Cause & effect, conditionals

Weeks 25 & 26: Unit 6: Information Design

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: Describing visual information

Weeks 27 & 28: Unit 7: Global Challenges

- 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: Drafting & Revising
- Grammar: Adjective clauses

Weeks 29 & 30: Unit 8: Medical Innovations

- Vocabulary: Understanding meaning from context
- Matching words and definitions
- Applying learned vocabulary in full sentences
- Prefixes (un-)
- Reading: Interpreting maps
- Making predictions
- Scanning for key details
- Interpreting information from a multimodal context
- Understanding a process
- Writing: Passive sentences in a research-based essay

Week 31 & 32: Revision & mid-term exam

- Content: Past Simple: regular vs. irregular verbs



Present Perfect

Passive tenses

Sequencing and synthesizing information.

Drafting & finalizing an essay

Taught vocabulary (available to all students through Edmodo)

End of Midterm Exam Content – Start of Final Exam Content

Weeks 33 & 34: Unit 9: World Languages

Vocabulary: Understanding meaning from context.

Matching words and definitions

Applying learned vocabulary in full sentences

Reading: Interpreting maps and charts.

Predicting content from clue

Identifying main ideas

Identifying supporting ideas

Identifying meaning from context

Writing: 3 paragraph essay about Geo-tourism

Writing & revising

Grammar: Making predictions, counter-arguments

Weeks 35 & 36: Unit 10: Survival instinct

Vocabulary: Understanding meaning from context.

Matching words and definitions

Applying learned vocabulary in full sentences.

Reading: Responding to text and photos.

Identifying main and supporting ideas

Understanding meaning from context

Writing: Drafting & Revising

Concluding paragraphs

Grammar: Similes, metaphors, alliteration and onomatopoeia.

Weeks 37 & 38: 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 39: Revision for final exam

Content: Past continuous

Similes, metaphors, alliteration and onomatopoeia

Referring to sources using quotes and paraphrases

Writing a persuasive essay on a given topic.

Reading comprehension and inference.

Taught vocabulary

Week 40: Final exam week



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 | • Eager to learn |
| • Possess discipline | • Dedicated to work |
| • Be self-sufficient | • Have a sense of public consciousness |
| • Proud to be Thai | • Be honest and upright |
| • Be an A.C. 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 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:

Participation in class	10%
Class work	10%
Notebooks	10%
Quiz 1	10%
Quiz 2	10%
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. 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.



THE **ENGLISH PROGRAM** AT ASSUMPTION COLLEGE
Course Syllabus – Semester 2/2023

5. Come see the teacher outside of classtime 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.



Student Syllabus for: EP4 Reading and Writing EN30202

Teacher: Mr. Jonathan Steven Phillips

Contact: epac.jonathanphillips@gmail.com

COURSE DESCRIPTION:

Welcome to Semester 1 of EP4 Supplemental English (Reading & Writing). 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 interpersonal communication skills. This course is reading, and writing intensive. In-class reading and writing 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 write and analyze on the majority of topics in year 5.

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 International English language exam 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.

COURSE OUTLINE:

IELTS: the high-stakes English test for **study**, **migration** or **work**

- Reading: The reading component consists of 40 questions, designed to test a wide range of reading skills. These include reading for gist, reading for main ideas, reading for detail, skimming, understanding logical argument and recognizing writers' opinions, attitudes and purpose.



- Writing: You will be presented with a graph, table, chart or diagram and asked to describe, summarise or explain the information in your own words. You may be asked to describe and explain data, describe the stages of a process, how something works or describe an object or event.
- Vocabulary: Art, business & money, communication & personality, crime & punishment, economics, education, environment, family & children.

End of Midterm Exam Content – Start of Final Exam Content

IELTS: the high-stakes English test for **study**, **migration** or **work**

- Reading: this includes three long texts which range from the descriptive and factual to the discursive and analytical. These are taken from books, journals, magazines and newspapers. They have been selected for a non-specialist audience but are appropriate for people entering university courses or seeking professional registration.
- Writing: you will be asked to write an essay in response to a point of view, argument or problem. Responses to both tasks must be in a formal style.
- Vocabulary: Food, health, language, technology, transport, travel, society, sport, work.

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 during class 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:

Independent Reading	10%
Assignments (Reading & Writing)	20%
Essays	20%
Behavior	10% (program mandated)
Midterm (Summative) Exam	20% (program mandated)
Final Exam	20% (program mandated)

With your dedication, discipline, respect and hard work we will have an excellent semester.



EN30242 English for Life Skills 2

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 23 & 24: 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 25 & 26: 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 manner

Weeks 27 & 28: 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 29 & 30: 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 31: 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 32: 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 33: 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 34 & 35: 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 from context
Identifying events to complete a timeline
Writing: Explanatory essay about literature
Concluding paragraphs
Grammar: Similes, metaphors, and figurative language

Weeks 36 & 37: 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 from 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 38 & 39: 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 40: 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 |

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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

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Homework & Classwork

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$55\% \leq Final\ Score < 60\%$	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.
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4. Do **not** copy your classmate's work; struggle through and do the work on your own. This is how you learn.
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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.