



## MA22102 Foundation Mathematics 4

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**Teacher** Mrs. Suphak Keereepart

**Contact** EP Teacher Room, 1<sup>st</sup> Floor Colombet Bldg.  
skeereepart@gmail.com

**Class Time** EP-M2/1: Tues, period 2; Wed, period 5; Fri, period 7  
EP-M2/2: Mon, period 3; Thurs, period 2; Fri, period 2  
EP-M2/3: Mon, period 5; Tues, period 5; Thurs, period 4

**Credits** 1.5

### Course Description

This foundation mathematics course focuses on the topics within algebra and geometry. These topics include powers, real numbers, system of linear equations, polynomials, factorization of polynomials, congruence and parallel lines. This course enables students to learn and use mathematical skills and processes which include problem-solving, reasoning, communications, mathematical implication and presentation, mathematical connections, and creative thinking. Students are encouraged to have responsibility, discipline, self-confidence, and positive attitudes toward mathematics. The course closely follows the content of the Thai syllabus while also exposes students to questions and word problems from an international syllabus.

### Textbook

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

*New Mathematics Counts, 2<sup>nd</sup> Edition*, Singapore 2007  
ISBN- 978-981-01-6418-8

### Course Outline & Objectives

#### Pythagoras' Theorem (*Indicator MA 2.1, S.2/2*)

- ✓ Pythagoras' Theorem and its converse
- ✓ Real-life application of Pythagoras' Theorem

#### Statistics (*Indicator MA 2.1, S.2/1*)

- ✓ Dot Plots
- ✓ Stem-and-leaf plots
- ✓ Histograms
- ✓ Mean, Median, Mode and Range



**End of Midterm Exam Content – Start of Final Exam Content**

**Surface Area and Volume** (*Indicator MA 2.2 S.2/2*)

- ✓ Cube and cuboids
- ✓ Prisms
- ✓ Cylinder
- ✓ Composite Solids

**Geometric Construction** (*Indicator MA 2.2 S.2/2*)

- ✓ Geometric Reasoning
- ✓ Reasoning in Geometric Constructions.

**Academic Integrity Policy**

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

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

**Behavioral Expectations**

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

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

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

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



### Attendance & Tardiness

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

### Homework & Classwork

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

### Grading

This course adheres to the Assumption College grading scale:

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

### Evaluation and Assessment

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

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



### **Recommendations for Success**

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

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



**MA20204 Universal Mathematics 4**

**Teacher** Mr. Steven Kuhn  
**Contact** EP Teacher Room, 2<sup>nd</sup> Floor Colombet Bldg.  
**Class Time** EP-M2/1: Tue, period 7; Wed, period 6  
 EP-M2/2: Mon, period 4; Thurs, period 6  
 EP-M2/3: Mon, period 1; Wed, period 3  
**Credits** 1.0

**Course Description**

Study foundation mathematics on the topics of Ratio Proportion and Variations, Exponents, Real Numbers, Angle Properties of Polygons, Congruence of Triangles. Use mathematical skills and processes which are problem-solving, reasoning, mathematical communication and implication, presentation, mathematical knowledge linking, and creativity with responsibility, disciplines, systematic and accurate working, self-confidence, positive attitude towards mathematics, honesty, and effort.

**Textbook**

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

**Course Outline & Objectives**

<b>Learning Units</b>	<b>Chapters from textbook</b>
<b>1. Proportion and Variations</b> 1. Ratio 2. Proportion 3. Direct Variation 4. Inverse Variation 5. Compound Variation 6. Application Problems	<i>In-class notes and handouts</i>
<b>2. Exponents</b> 1. Introduction 2. Number 1 as base and power 3. Laws of exponents 4. Laws of exponents applied to negative exponents 5. Fractional exponents 6. Equations involving indices	<i>Chapter 1: Exponentiation In-class notes and handouts</i>
<b>3. Real Numbers</b> 1. Introduction 2. Irrational Numbers 3. Properties of irrational numbers 4. Surds 5. Laws of surds 6. Classification of surds 7. Multiplication and division of surds 8. Standard form of a mixed surd 9. Addition and subtraction of surds 10. Rationalising the denominator 11. Rationalising a binomial surd	<i>In-class notes and handouts</i>



<p><b>4. Properties of Polygons</b></p> <ol style="list-style-type: none"> <li>1. Polygons</li> <li>2. The sum of the interior angles of any polygon</li> <li>3. The sum of the exterior angles of a convex polygon</li> </ol>	<p><b><i>In-class notes and handouts</i></b></p>
<p><b>5. Congruence of Triangles</b></p> <ol style="list-style-type: none"> <li>1. What is congruence?</li> <li>2. Criteria of congruence of triangles</li> </ol>	<p><b><i>Chapter 5: Congruence</i></b> <b><i>In-class notes and handouts</i></b></p>

**Resources**

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

**Academic Integrity Policy**

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



### Attendance & Tardiness

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

### Assignments & Projects

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

### Grading

This course adheres to the Assumption College grading scale:

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

### Evaluation and Assessment

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

Formative (Tests, MS Quizzes, Assignments, and Projects)	50%
Behaviour	10% (program mandated)
Midterm Exam	20% (program mandated)
Final Exam	20% (program mandated)

### Recommendations for Success

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

1. Read the course textbook. You may need to read the material multiple times to understand. By reading along at home with the lessons taught at school (typically only a few pages per night), students will be able to responsibly manage the material and gain the most from the course.
2. Complete all forms of assessment and submit all homework and assignments.
3. Search online, in either Thai or English, if you don't understand a topic discussed in class or simply to get a better understanding of the topic.
4. Do not copy the work of your classmates' work; try to struggle through on your own. This will help you learn.



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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.





**MA20224 Supplemental Mathematics 4**

**Teacher** Mr. Keerthi Prabhakar  
**Contact** EP Teacher Room, 2<sup>nd</sup> Floor Colombet Bldg.  
epackeerthi@gmail.com

**Class Time** EP-M2/1: Wed, period 3  
EP-M2/2: Thu, period 4  
EP-M2/3: Wed, period 5

**Credits** 0.5

**Course Description**

This course focuses on the fundamental principles of solving quadratic equations in one variable through factoring methods and understanding the square roots of real numbers. It equips students with problem-solving skills, enabling them to efficiently tackle quadratic equations and perform calculations related to square roots. The course also emphasizes practical applications through word problems and rationalizing denominators. This course provides students with a solid mathematical foundation, enabling them to approach quadratic equations and square roots with confidence. The practical applications, including word problems and rationalization, prepare students for diverse fields where these mathematical skills are vital.

**Textbook / Worksheets**

*Mathematics for the International Student: Mathematics SL, 3<sup>rd</sup> Edition*  
Teacher will also provide handouts

**Course Outline & Objectives**

Unit	Topic
1	<b>Quadratic equations in one variable</b> <b>1. Solve quadratic equations in one variable by factoring method</b> <b>2. Solve word problems involving quadratic equations in one variable by factoring method</b>
2	<b>Square roots of real numbers</b> <b>1. Find the square roots of real numbers</b> <b>2. Calculate the sum and differences of square roots of real numbers</b> <b>3. Rationalize the denominators (conjugate)</b>

**Resources**

- Required**
- At least two notebooks (1 white, one pink)
  - Ruler
- Suggested**
- Many different coloured pens/markers/highlighters

**Academic Integrity Policy**

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

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

### **Behavioral Expectations**

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

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

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

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

### **Attendance & Tardiness**

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

### **Homework & Classwork**

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



### Grading

This course follows the Assumption College grading scale:

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

### Evaluation and Assessment

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

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

### Recommendations for Success

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

1. Read, read, read the course textbook. Reading the text once is often insufficient, even for native English speakers. You may need to read the material multiple times to understand. Students can responsibly manage the material and gain the most from the course by reading along at home with the lessons taught at school (typically only a few pages per night).
2. Search online, in either Thai or English, if you don't understand a topic discussed in class or to better understand the topic.
3. Get a Thai language introductory mathematics book.
4. Get a math and physics tutor. The tutor should be helping you learn, not doing the work for you!
5. Do **not** copy your classmate's work; struggle through and do the work on your own.
6. See the teacher outside of class time for assistance.
7. Do more than just the bare minimum; the textbook has many problems. We only have time for so many of them. Do the review questions at the end of the chapter and see the teacher for the answers.
8. Study the notes and vocabulary for at least a few minutes every day, such as in homeroom or during any free time you might have in other classes.



## **HP22103 Foundation Health Studies 3**

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**Teacher** Mr. Brian Mallon  
**Contact** 2<sup>nd</sup> Floor Colombet Bldg.  
Bmal1332@gmail.com  
**Credits** 0.5

### **Course Description**

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

### **Textbook**

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**Health & Physical Education 2 Book 1**  
*Think Big Plus*

### **Course Outline & Objectives**

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#### **INDICATORS**

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



## **HEALTH COMPONENTS**

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

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

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

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

### **Resources**

- Suggested
- Pink resource booklet for note taking (Reminder that any handouts must be stapled or glued into the pink resource).
  - Fitness / 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*:



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Course Syllabus – Semester 2/2023

- 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.

### 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 Assessment

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

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

### Recommendations for Success

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



## **ST22102 Foundation Science 4**

**Teacher** Mr. Derrick Thompson (Mr. Derrick)

**Contact** EP Science Lab Office, 2<sup>nd</sup> Floor Colombet Bldg.  
thompsonderrick30@gmail.com

**Credits** 1.5

### **Course Description**

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

### **Course Outline & Objectives**

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#### **1. Work and Energy**

1.1 Work

1.2 Power

1.3 Simple Machines

1.3.1 Pulley

1.3.2 Lever

1.3.3 Inclined Plane

1.3.4 Screw

1.3.5 Wedge

1.3.6 Wheel and Axle

1.4 Energy and Energy Transformation

1.4.1 Kinetic Energy

1.4.2 Potential Energy

1.4.3 Conservation of Energy

End of Midterm Exam Content – Start of Final Exam Content
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#### **2. The Earth and Changes on Earth**

2.1 Fossil Fuels

2.1.1 Formation Processes

2.1.2 Exploitation

2.2 Alternative Energy Sources

2.2.1 Light

2.2.2 Wind

2.2.3 Water

2.2.4 Biomass

2.2.5 Geothermal

2.2.6 Hydrogen

2.2.7 Benefits and Limitations of Each Energy Source

2.3 The Internal Structure of Earth

2.4 Processes on Earth's Crust



- 2.4.1 Weathering
- 2.4.2 Erosion
- 2.4.3 Deposition
- 2.5 Soil
  - 2.5.1 Soil Formation
  - 2.5.2 Soil Characteristics
  - 2.5.3 Benefits from Soil
- 2.6 Effects from Changes on Earth's Crust
  - 2.6.1 Flooding
  - 2.6.2 Coastal Erosion
  - 2.6.3 Landslides
  - 2.6.4 Sinkholes
  - 2.6.5 Subsidence

### **Resources**

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- |           |                                                                                                                                                                                                                                                                                     |
|-----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Required  | <ul style="list-style-type: none"><li>• At least 1 notebook (white)</li><li>• Folder for Science only (to keep handouts, etc.)</li><li>• Ruler</li><li>• Glue stick and stapler</li><br/><li>• Some type of smart electronic device, such as a smartphone, tablet or ipad</li></ul> |
| Suggested | <ul style="list-style-type: none"><li>• Many different colored pencils/highlighters</li><li>• A Matthayom-level science practice book in Thai</li></ul>                                                                                                                             |

### **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 (2 notebooks, textbook, writing utensils, etc.) and to actively participate throughout the lesson until class is dismissed.

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

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





### **Attendance & Tardiness**

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

### **Homework & Classwork**

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

### **Grading**

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This course follows 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**

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

Homework, Lab Work and Other Formative Assessment	40%
Behavior/Participation (Affective Domain)	10%
Quizzes	10%
Midterm Exam	20%
Final Exam	20%

### **Recommendations for Success**

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

1. Read the textbook and websites that the teacher recommends.
2. When studying, learning in the classroom and doing homework, always try to think about how the topic we are learning fits into the 'Big Picture.'
3. Ask questions when you don't understand. If you don't understand something, there are likely other students who don't understand as well. If you ask, then you will be helping those students as well. If you feel more confident asking a question in private, then you may do so.



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4. **Do not copy** any work from anyone. This will damage your potential for thinking and being creative. It will also get you a zero. Don't let other students copy your work either, as it will encourage your friends to be lazy and will harm them in the future.
5. Don't try to rely on memorizing facts alone. Try your best to truly understand the concepts and processes that we discuss in class. Assignments and exams will often require to to **use** scientific knowledge, not just have knowledge. It's not always about what you know but, instead, You will often be asked to **use that knowledge** to solve problems.



**ST20204 Universal Science 4**

**Teacher** Mr. Derrick Thompson (Mr. Derrick)

**Contact** EP Science Lab Office, 2<sup>nd</sup> Floor Colombet Bldg.  
thompsonderrick30@gmail.com

**Credits** 1.0

**Course Description**

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

**Course Outline & Objectives**

**1. Light and Matter** (Please buy a protractor for this unit.)

- 1.1 The Speed of Light
- 1.2 Plane Mirrors
- 1.3 Curved Mirrors
- 1.4 Refraction of Light
- 1.5 Dispersion of Light
- 1.6 Lenses and Optical Instruments

**2. The Particulate Model of Matter**

- 2.1 Particle Motion
- 2.2 States of Matter
- 2.3 Temperature

End of Midterm Exam Content – Start of Final Exam Content
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**3. Sound**

- 3.1 How Sound is Produced
- 3.2 How Sound Travels
- 3.3 How We Hear Sound
- 3.4 Importance of Sound in Society
- 3.5 Noise Pollution

**4. Ecology**

- 4.1 Ecosystem Components
- 4.2 Balance in Ecosystems
- 4.3 Nutrient Cycles
- 4.4 Ecosystem Conservation



### **Resources**

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

### **Academic Integrity Policy**

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

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

### **Behavioral Expectations**

For the sake of all the members of the class, students are expected to respect themselves, their classmates, the teacher, and the facilities. Students must accept responsibility for themselves and their actions. Students are expected to be ready at the start of every class (2 notebooks, textbook, writing utensils, etc.) and to actively participate throughout the lesson until class is dismissed.

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

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

### **Attendance & Tardiness**

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

### **Homework & Classwork**

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



### **Grading**

This course follows the Assumption College grading scale:

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

### **Evaluation and Assessment**

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

Homework, Lab Work and Other Formative Assessment	40%
Behavior/Participation (Affective Domain)	10%
Quizzes	10%
Midterm Exam	20%
Final Exam	20%

### **Recommendations for Success**

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

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



### **ST20224 Supplemental Science 4**

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

**Class Time:** EP-M 2/1: Tuesday 4<sup>th</sup> period  
EP-M 2/2: Wednesday 4<sup>th</sup> period  
EP-M 2/3: Monday 7<sup>th</sup> period

**Credits:** 0.5

#### **Course Description**

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

#### **Textbook**

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

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

[Indicator 1 - 4]

UNIT 2: Measurement and Data [Indicator 1]

Lesson 1: Representing data – Weeks 1-3

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

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

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

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

- ✓ Understand the types of models.
- ✓ Describe different models and simulations.



- ✓ Explain where we use models and simulations.
- ✓ Difference between models and simulations
- ✓ Visual Summary – Models and simulations

### **Midterm Exam (Week 8 and 9; December 16 -23)**

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

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

Conducting experiments [Indicator 4]– Week 14 -15

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

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

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

### **Final Exam (Week 19 & 20; Feb 28 – 7 March)**

#### **Resources**

- Required
- 1 notebook
  - 1 plastic folder for course materials
  - Science Text Book
  - Red and blue pen. Liquid paper. Pencils. Ruler
  - Internet -Schoolology
  - Headphones
- Suggested
- Many different colored pens/markers/highlighters
  - Electronic Thai-Eng translator / calculator (phone-based application acceptable after teacher approval)



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

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

All Thai students are expected to embrace the following *desired characteristics*:

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

### **Attendance & Tardiness**

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

### **Homework & Class work**

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





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### Grading

This course follows to the Assumption College grading scale:

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

### Evaluation and Assessment

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

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

### Recommendations for Success

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



## **ST22103 Technology and Computer Science 2**

**Teacher** Mr. Dave Thomas

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

**Credits** 0.5

### **Course Description**

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

### **Course Outline & Objectives**

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

Topics include:

#### **Roles and Operation of Robots [Indicator 1, 2]**

Numbering systems

Boolean logic

Algorithms to aid problem solving

#### **Creation and Development [Indicator 3,4,5]**

Advance constructions in robotics

Robotic appendages

Sensors: acting on and reacting to the environment

#### **Programming [Indicator 1,3,4,5]**

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Intermediate level programming

Variables-use in programming

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

Logical systems)

### **Resources**

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- Required
- EP Computer Lab
  - Robots

### **Academic Integrity Policy**

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

### **Behavioral Expectations**

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

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

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

### **Attendance & Tardiness**

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

### **Homework & Classwork**

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

### **Grading**

This course follows to the Assumption College grading scale:

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



### Evaluation and Assessment

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

STEM	10%
Homework/Classwork	10%
Quiz	10%
Coursework	20%
Behavior	10% (program mandated)
Midterm Exam/Project	20% (program mandated)
Final Exam	20% (program mandated)

### Recommendations for Success

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

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



**ST20253 & ST20254 Computer for Education 3 & 4**

<b>Teacher</b>	Mr. Matt Harris
<b>Contact</b>	Location: 5th Floor Computer Lab
<b>Class Time</b>	EP-M 2/3: Wednesday 8:30 – 10:10
<b>Credits</b>	1.0

**Course Description**

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

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

**Course Outline & Objectives**

Topics include: [Indicator 1,2]

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

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

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



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### **Behavioral Expectations**

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

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

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

### **Attendance & Tardiness**

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 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.



### **OC22103 Foundation Occupational Works 4**

**Teacher** Dr. Hermann Gruenwald  
**Contact** EP Teacher Room, 2<sup>nd</sup> Floor Colombet Building  
[DrHermann365@gmail.com](mailto:DrHermann365@gmail.com)

**Website** <https://classroom.google.com/u/0/h?pli=1>

**Class Time** EP-M2/1: Wednesdays, Period 1  
EP-M2/2: Tuesdays, Period 7  
EP-M2/3: Tuesdays Period 2

**Credits** 0.5

#### **Course Description**

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This course is broken down into three segments which focus on clothing and apparel, mechanical works and agricultural works. The course builds on the knowledge and skill set acquired in the previous semester and expands on it. It provides opportunities to explore and practice more in depth the three areas of apparel, mechanical and agricultural work with interesting projects.

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**

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##### **Strand 1: Living and Family**

Standard O1.1: Understanding of concept of work; endowment with creativity and skills for various aspects and work processes, management, teamwork, investigation for seeking knowledge, morality, diligence, and awareness of the need to economise on the use of energy and the environment for one's life and for family

##### **Indicators**

1. Apply skills in seeking knowledge for work development.
2. Apply skills for problem-solving processes when working.
3. Have awareness and economically and cost- effectively use resources when working.

##### **Strand 4: Occupation**

Standard O4.1: Understanding and acquisition of necessary skills and experiences; proper perception of future career; technological application for occupational development; endowment with morality and favourable attitude towards occupations

##### **Indicators**

4. Explain about strengthening occupational skills.
5. Specify self-preparation for entering employment.
6. Have basic skills required for taking up occupations of interest.





Learning Units/Names of Learning Units	Time (hrs.)	Process/Activity	Media	Evaluation and Assessment
<b>1. Clothing and apparel</b> - Significance of apparel decoration and clothing - Hand embroidery	(3) 1 2	- Explain about apparel decoration and clothing - Explain about hand embroidery	- Worksheet - PowerPoint - Web site - Video - Photos	- Observation form - Rubric for evaluation of worksheet - Test
<b>2. Mechanic work</b> - Necessary knowledge for producing work - Making appliance by using technological process	(3) 1 2	- Explain general knowledge about mechanic work - Explain how to make appliances - Have students design and create work	- Worksheet - PowerPoint - Web site - Video - Photos	- Observation form - Rubric for evaluation of worksheet - Test
<b>3. Agricultural work</b> - History and importance of animal raising - Categories of pets in Thailand - Raising laying chicken and mango fish	(3) 1 1 1	- Explain history and importance of animal raising - Explain categories of pets - Explain about laying chicken raising and mango fish raising	- Worksheet - PowerPoint - Web site - Video - Photos	- Observation form - Rubric for evaluation of worksheet - Test
Midterm Exam	1			
<b>3. Creating work by using technological process</b> 3.1 General knowledge about technological design 3.2 Technological process	(6) 1 1 1	- Explaining general knowledge about technological design - Explaining the process and principles of technological design - Demonstrating drafting and making a model	- Worksheet - PowerPoint - Web site - Video - Photos	- Observation form - Rubric for evaluation of worksheet - Test



3.3 Principle for technological design	1	1. Group work to create work by technology		
3.4 Drafting by using technology	1			
3.5 Creating model	1			
3.6 Creating work by using technological process				

<b>4. Experiences for entering employment</b>	<b>(3)</b>	- Explaining about strengthening occupational skills	- Worksheet	- Observation form
4.1 Strengthening occupational skills	1	- Explaining about preparation for entering employment	- PowerPoint	- Rubric for evaluation of worksheet
4.2 Preparation for entering employment	1	- Giving examples of occupations	- Web site	- Test
4.3 Preparation for occupations that students are interested	1	1. Group discussion “Experiences and future careers”	- Video - Photos	
Final Exam				

### Resources

- Required
- A blank-paper sketchbook (minimum A4 size)
  - Basic stationary (pen, pencil, eraser, ruler, sharpener etc)
  - Extra stationary (glue stick, stapler, tape, liquid paper etc.)
- Suggested
- Various colored pens / markers / highlighters / pencils
- Occasional
- Drinks ingredients, decorations and glassware
  - Craftwork materials or items
- The above will be requested a week in advance of use*

### 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.



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### **Behavioral Expectations**

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For the sake of all the members of the class, students are expected to respect themselves, their classmates, the teacher, and the facilities. Students must accept responsibility for themselves and their actions. Students are expected to be ready at the start of every class (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 misbehaviour, non-participation or disruption to the class. This is averaged throughout the semester and calculated as a score of 10 at the end of semester.

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

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

### **Attendance & Tardiness**

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

### **Homework & Class Work**

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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**

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This course follows to the Assumption College grading scale:

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



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

### 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

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1. Bring all the materials that are needed to complete projects on the day of class
2. Be creative and work hard 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



## **EN22102 Foundation English 4**

**Teacher** Mr. Nathan Hunter

**Contact** EP Teacher Room, 3<sup>rd</sup> Floor Colombet Bldg.  
[Nathanhunterm1m2english@yahoo.com](mailto:Nathanhunterm1m2english@yahoo.com);

**Credits** 1.5

### **Course Description**

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

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

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

### **TEXT BOOK:**

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“Think 3, Student Book” Marcus C. Thompson

ISBN-13: 978-981-48-2392-0

“Think 3, Workbook,” Marcus C. Thompson

ISBN- 978-981-48-2395-1

“The Sign of Four” Macmillain Readers

978-0-230-03521-8

“Shadow Cipher,” Laura Ruby

ISBN:978-0-230694

### **Resources**

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



### **Academic Integrity Policy**

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

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

### **Behavioral Expectations**

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

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

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

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

### **Attendance & Tardiness**

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Attendance will be taken at the start of every class. Students are expected to be in class on-time, every time. Unexcused absences or tardiness will not be tolerated.

In the case of planned absences, please notify the teacher in as far in advance as possible. Students are expected to catch up on all missed work outside of class time.

### **Homework & Classwork**

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



### Grading

This course follows to the Assumption College grading scale:

<i>Final Score</i> $\geq$ 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:

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



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

Weeks:	Units/Content	Skills focus:	Reading:	Assignments:	Quizzes:
1-2	Think Book:  Unit 6: p. 56-66, Passive Voice  Novel: Shadow Cipher	Reading/Writing  Listening  Writing.	Think Book: (SB) p. 58- 59  Think Book (WB) P. 60-61  Chapter 1-2 p. 20-51	(SB) p.70-71 (WB) p. 54-55  Worksheet.  Summary/ Vocabulary	Quiz
3-4	Think Book: Unit 9  Modals of the Past  Fictional Novel: “The Shadow Cypher” Chapter 4 p. 74	Reading/Writing  Listening	Think Book: Unit 9 (SB) p. 89 (WB) p. 84  P. 88 “The Dress”  Shadow Cipher Chp. 4 p. 74-88	Summary	Quiz
5-6	Using Semicolons in List and in sentences.  Novel: “The Shadow Cypher”	Reading/Writing	Novel: “Shadow Cypher” Chapter 5 p. 90-100	Worksheet  Summary  Vocabulary Worksheet	Quiz  Quiz
Week 7- 8	Adverbial Clauses  Novel: “The Shadow Cypher”	Reading/Writing  Reading	No Reading.  Novel: Chapter 6 p. 102-116	Worksheet  Summary  Vocabulary	Quiz  Quiz





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

Weeks:	Units and Chapters	Skills focus:	Reading:	Assignments:	Quizzes:
9-10	Review Week	Reading Writing	No Reading	Catch up on previous assignments.	Midterm Review
Week 10	Midterm Exams				
11-12	Adjective Clauses  Reported Speech  “A Sign of Four”  Shadow Cipher	. Reading/Writing  Reading Writing	  “A Sign of Four” Chapters 1-3  Shadow Cipher: Chapter 7 (p. 117-126)	Worksheet  Worksheet  Chapter questions	Quiz
Week 13-14	Think Book  “Sign of Four” Chapters 4-6)  Novel: “The Shadow Cipher”	Listening  Reading  Reading	Think Book: (SB) p. 100 (WB) p. 96  The Shadow Cipher: Chapters 8 (p128-145)	Chapter Questions  Crossword Puzzle	Quiz
15-16	Reported Speech    Supporting Sentences  Novel: “Shadow Cipher”    “A Sign of Four”	Reading/Writing   Listening  Writing	No Reading   No Text Book/Notes   Shadow Cipher: Chapter 9	Worksheets  Worksheets  Writing a paragraph. Summary/ Vocabulary Chapter Questions	Quiz       Quiz



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

	Chapters 9-12				
17	Review for Midterm	Writing/Reading		Review Sheet for Midterm	
Week 18	Final Exam Week				



**EN20216 Supplemental English 16**

**Teacher** Mr. Paul Griffiths

**Contact** EP Teacher Room, 2<sup>nd</sup> Floor Colombet Bldg.  
paul\_v\_griffiths@yahoo.co.uk

**Class Time** EP-M2 - Three Periods a Week for Each Class

**Credits** 1.5

**Course Description**

This class will focus on improving skills in English, in particular reading, writing, listening and speaking. One of the primary goals of the course is to prepare students for the Cambridge PET English exam which we will sit during this semester.

**Textbooks**

*Complete Preliminary 2<sup>nd</sup> edition – Student’s Book* - Cambridge Course book

*Complete Preliminary 2<sup>nd</sup> edition - Workbook* - Cambridge Course book

**Course Outline & Objectives**

**Week 1 & 2** Review of final exam, modal verbs, using ‘so’ as an intensifier.

**Week 3 & 4 - Complete Preliminary Unit 6 – That’s Entertainment**

- Vocabulary – Types of shows /genres
- Grammar – Present Perfect with ‘just’, ‘already’ and ‘yet’
- PET Reading – Selecting Matching Events (*PET part 2*)
- PET Speaking – Making suggestions and reaching a conclusion (*PET part 3 & 4*)

**Week 5** – Writing skills (writing a creative story)

**Week 6 & 7 - Complete Preliminary Unit 7 – Getting Around**

- Vocabulary – weather vocabulary
- Grammar – the future
- PET Reading – Short signs and messages (*PET reading part 1*)
- PET Listening – Long listening (*PET listening part 4*)

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

**Week 9 – Midterm Exams**

*Christmas / New Year break*

**Week 10 – Speaking skills (PET Speaking parts 1-4)**

**Week 11-13 – PET Reading and Writing review** (before PET exams)

**Week 14 - 16 - Complete Preliminary Unit 8 – Influencers**

- Vocabulary – Phrasal verbs / Describing people
- Grammar – 0, 1<sup>st</sup> & 2<sup>nd</sup> conditionals / when, if & unless
- PET Reading – Fill in the missing words (*PET reading part 6*)
- PET Listening – Fill in the missing words (*PET listening part 4*)

**Week 17 – Revision of Skills and content / Catch up on missed classes**

**Week 18 – Final Exams**

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



## **Resources**

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- Required
- 1 notebook (1 white notebook)
  - Folder for English only (to keep handouts, etc.)
  - Textbooks
  - Blue or black pen + red pen for checking work
  - Dictionary (English to English)

Other resources such as worksheets will be given throughout the semester.

## **Academic Integrity Policy**

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

## **Behavioral Expectations**

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

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

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

## **Attendance & Tardiness**

---

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

## **Homework & Classwork**

---

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



**Grading**

This course follows to the Assumption College grading scale:

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

**Evaluation and Assessment**

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

Formative Score	50%
Behavior	10% (program mandated)
Midterm Exam	20% (program mandated)
Final Exam	20% (program mandated)

**Recommendations for Success**

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

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

