



## MA21101 **Foundation Mathematics 1**

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<b>Teacher</b>	Mrs. Suphak Keereepart
<b>Contact</b>	EP Teacher Room, 1 <sup>st</sup> Floor Colombet Bldg. Suphak.ke@assumption.ac.th
<b>Class Time</b>	EP-M1/1: Tues; period 1, Wed, period 1; Friday, period 2 EP-M1/2: Mon; period 4; Wed, period 4; Friday, period 4 EP-M1/3: Mon; period 5, Tues; period 3; Thurs; period 4 EP-M1/4: Mon; period 1, Tues; period 6; Friday; period 6
<b>Credits</b>	1.5

### Course Description

Numbers systems and geometry form the basis of Foundation Mathematics 1. These content areas are presented from three perspectives;

1. To build upon our student's current knowledge and skills in these areas.
2. To create awareness of the key concepts that underlie these mathematical areas.
3. To highlight connections to the scientific and technological uses of mathematics.

In order to establish an environment favorable for learning, our students will be asked to work collaboratively, sharing their ideas and assisting each other. Communicating mathematical ideas through reading, writing and speaking English will be a key component of each lesson. The creation of this environment at the start of the course will help to bring the students lasting success both in future mathematics courses and across other curricula areas.

### Textbook

*Mastering Mathematics 1A*, 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

#### **Rational numbers** (*Indicator MA 1.1, S.1/1*)

- ✓ Factors of cardinal numbers
- ✓ Prime numbers of cardinal numbers
- ✓ Cardinal number factorization
- ✓ Find the GCD of cardinal numbers
- ✓ Find the LCM of the cardinal numbers
- ✓ Positive numbers and negative numbers and zero
- ✓ Comparing integers
- ✓ Adding integers



- ✓ Subtracting integers
- ✓ Multiplying integers
- ✓ Dividing integers
- ✓ Properties of integers and applications

**Real numbers** (*Indicator MA 1.1, S.1/1*)

- ✓ Real numbers
- ✓ Rational and irrational numbers
- ✓ A square root and a cube root of rational number
- ✓ Applying knowledge learned about real numbers.

**Powers** (*Indicator MA 1.1, S.1/1*)

- ✓ Definition of powers
- ✓ Writing very large numbers in scientific notation
- ✓ Writing very small numbers in scientific notation
- ✓ Multiplying powers that have the same base and have integer exponents.
- ✓ Dividing powers that have the integer exponents.

<b>End of Midterm Exam Content – Start of Final Exam Content</b>
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**Statistics** (*Indicator MA 3.1 S.1/1*)

- ✓ Definition of data
- ✓ Presenting data and interpreting data
- ✓ Application

**The basics of geometry and relationship between two-dimensional and three-dimensional geometric shapes** (*Indicator MA 2.2 S.1/2*)

- ✓ Constructing geometric shapes by using compass and straightedge.
- ✓ Constructing simple geometric shapes by using the basics of construction.
- ✓ Exploring properties of geometric figures
- ✓ Image of two dimensional geometric figure formed when the three-dimensional geometric figure is unfolded.
- ✓ Two-dimensional image visualized from front view, side view and top view of the three-dimensional geometric figure.
- ✓ Drawing or creating geometric figures from cubes

**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.



## **MA20221 Supplemental Mathematics 1**

**Teacher** Mrs. Suphak Keereepart

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

**Class Time** EP-M1/1: Tues, period 5  
EP-M1/2: Wed, period 5

**Credits** 0.5

### **Course Description**

Understanding fractions, decimals, ratios, percentages, and polynomials is paramount due to their pervasive applications across various disciplines. Fractions elucidate parts of wholes and relative quantities, pivotal in everyday tasks like cooking measurements and construction planning. Decimals offer precise representations, which are crucial in financial transactions, scientific measurements, and technological calculations where accuracy is paramount. Ratios provide insights into comparative relationships, which are indispensable in fields such as scaling maps, analyzing demographics, and blending ingredients in recipes. Percentages simplify the expression of proportions within a standardized framework, which is essential in finance, statistics, and data interpretation. Meanwhile, polynomials are foundational elements in algebra and calculus, utilized extensively in physics, engineering, economics, and computer science for modelling complex systems and phenomena. Mastery of these concepts enhances problem-solving abilities, facilitates informed decision-making in diverse contexts, and underscores their indispensable role in academic studies and real-world applications.

### **Textbook / Worksheets**

*Mathematics for the International Student: Mathematics SL, 3<sup>rd</sup> Edition*

*Teacher will also provide handouts*

### **Course Outline & Objectives**

<b>Numbers of Units/Titles of Units</b>	<b>Time (Hours)</b>	<b>Competencies/Skills/Process/Teaching Methods</b>	<b>Media</b>	<b>Assessment</b>
<b>1. Numbers</b>	<b>8</b>	1. Lecture	1. Handouts	1. Using the characteristics observation form
1.1 Symbols of numbers and the Roman numeral system	2	2. Questions and answers	2. Worksheets	2. Checking exercises
1.2 The system of the base numbers	2	3. Group work process	3. Website	3. Marking the tests
1.3 The change of number base system	4			



<b>2. Polynomials</b>	<b>12</b>	1. Lecture	1. Handouts	1. Using the
2.1 Polynomials and Monomial	2	2. Questions and answers	2. Worksheets	characteristic s observation form
2.2 Sum and Difference of Monomial	2	3. Group work process	3. Website	2. Checking exercises
2.3 Sum and Difference of Polynomials	4			3. Marking the tests
2.4 Product and Division of Polynomials	4			

### Resources

#### Required

- Ruler
- Glue stick, stapler, or tape

#### Suggested

- Many different coloured pens/markers/highlighters
- Electronic Thai-English translator (not a phone-based application)

### Academic Integrity Policy

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 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.

### Behavioural Expectations

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

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

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

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



### **Attendance & Tardiness**

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

### **Homework & Classwork**

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

### **Grading**

This course follows to the Assumption College grading scale:

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

### **Evaluation and Assessment**

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

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

### **Recommendations for Success**

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

1. Read, read, read the course textbook. Reading the text once is often insufficient, even for native English speakers. You may need to read the material multiple times to understand. Students can responsibly manage the material and gain the most from the course by reading along at home with the lessons taught at school (typically only a few pages per night).
2. Search online, in either Thai or English, if you don't understand a topic discussed in class or to better understand the topic.
3. Get a Thai language introductory mathematics book.



4. Get a math and physics tutor. The tutor should be helping you learn, not doing the work for you!
5. Do **not** copy your classmate's work; struggle through and do the work on your own! This is how you learn!
6. See the teacher outside of class time for assistance.
7. Do more than just the bare minimum; the textbook has plenty of problems. We only have time for so many of them. Do the review questions at the end of the chapter and see the teacher for the answers.
8. Study the notes and vocabulary at least a few minutes every day, such as in homeroom or during any free time you might have in other classes.





## **MA20201 Universal Mathematics 1**

**Teacher** Mr. Chris Won

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

**Class Time** EP-M1/1: Mon, period 1; Fri, period 6  
EP-M1/2: Tues, period 2; Fri, period 2  
EP-M1/3: Mon, period 4; Wed, period 3  
EP-M1/4: Tues, period 1; Thurs, period 5

**Credits** 1.0

### **Course Description**

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

### **Textbook**

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

### **Course Outline & Objectives**

<b>Learning Units</b>	<b>Chapters from the textbook</b>
<b>1. Integers</b> 1.1. Integers 1.2. Absolute value of integers 1.3. Addition of integers 1.4. Subtraction of integers 1.5. Multiplication of integers 1.6. Division of integers 1.7. Rules for operations with integers 1.8. Order of operations 1.9. Applications of integers 1.10. Estimation of numbers	<i>Assumed Knowledge (Number) - CD Material Notes provided by the instructor</i>



## 2. Factors and Multiples

2.1. Greatest Common Divisors 2.2. Least Common Multiples

*Assumed Knowledge (Number) - CD Material Notes provided by the instructor*

<b>3. Ratio, Proportion, and Percents</b> 3.1. Increase and decrease in ratio 3.2. Proportion 3.3. Solving proportions 3.4. Percentages, fractions, and decimals 3.5. Percentage conversion 3.6. Word problem on percentages	<i>Assumed Knowledge (Number) - CD Material Notes provided by the instructor</i>
<b>4. Exponents</b> 4.1. Powers of integers 4.2. Powers of fractional numbers 4.3. Exponent rules 4.4. The scientific notation	<i>Chapter 6. Exponents and Surds Notes provided by the instructor</i>

## Resources

- ☐ Google Classroom
- ☐ My Open Math
- ☐ A4 paper or notebook
- ☐ iPad
- ☐ 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. Behavior is monitored every class. At the end of the semester the points are accumulated and used for the student's behavior score (10%).

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

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

### Attendance & Tardiness

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

### Assignments & Projects

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

### Grading

This course adheres to the Assumption College grading scale:

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



### **Evaluation and Assessment**

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

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

### **Recommendations for Success**

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

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



## **EN21101 Foundation English**

**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**

The Foundation English Course focuses on the skills of Reading, Writing, Critical Thinking, and Vocabulary. In term one, M1 students will be using a two books for developing English Skills and three books for reading. The first two books will be a student book and a workbook designed to improve skills in grammar primarily, along with reading, writing, speaking, and listening skills. The second book will be a novel for them to read and improve their reading skills. By the end of the year the students should be able to write sentences and paragraphs with the correct grammar skills specified in each chapter. Students will be given assignments for each type of skill during the semester and in class assessments will include group work, using technology, and creative thinking to explore the unit's topics. Quizzes will be give throughout the year. This book will require students to do individual assignments in their pink notebooks and keep notes in their white notebooks.

This year our M1 students will be given the opportunity to use their ipads in the classroom along with the Smart Board. Students will share their work and upload assignments to Google Classroom for grading.

### **TEXT BOOK:**

*“Think Better Learning 2* Cambridge Student Book  
(ISBN- 978- 1 -009 – 15194 – 8 )

*“Think Better Learning, 2”* Level 2 Cambridge, Workbook  
(ISBN- 978- 1 -008 – 78597 – 6)

*“The Bicycle Spy,”* Yona Zeldis McDonough  
( ISBN 9780545850957 )

### **Resources**

- |           |   |
|-----------|---|
| Required  | <ul style="list-style-type: none"><li>• 2 notebooks.(Pink and White)</li><li>• Access to the internet for quizlet, edmodo, and Google Classroom for grades</li><li>• English Ahead Student book and Workook 1</li><li>• Strategic Reading Book 1 (Orange Color)</li></ul> |
| Suggested | <ul style="list-style-type: none"><li>• Charlie and the Chocolate Factory</li><li>• Many different colored pens/markers/highlighters</li></ul>  |



### **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**

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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.

### **Grading**

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Down below is a table that will show you how the grades are combined for your son's score. Homework will be given in the form of writing assignments, reading assignments, classwork, and quizzes. Work will be assigned often and must be submitted on or before the due date for a score of 40 % of the final grade. 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. The chapters and content on the syllabi are what we will seek to cover. It is possible that some of the content may change given time and how fast we cover the material.

### **STEM**

10% of the Students grade will be their grade in STEM. They will be expected to work in groups and participate in the activities. It is important for students to listen carefully to instructions and work together in their STEM class for them to get the work finished on time and produce a good final project. Their homeroom will be assigned a STEM teacher to help them with the project.

### **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**

Grades will be kept up to date on the website called ‘Google Classroom.’ All students will sign up and be able to log in to see their grade and what work they have not turned in. This will also provide them with the latest score for their students work. Parents are able to also log in with their own account to see their student’s grade. Go to Google Classroom.com and sign up as a parent.

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

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

Please use the following suggestions:



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 everyday is a good way to start.
2. Watching American movies or TV shows with the English subtitles is a good way to improve your speaking and listening skills; it also helps with vocabulary too. When you come across a new word, just pause the movie and write it down in your vocabulary book.
3. Search online (in English) if you don't understand a topic discussed in class to get a better understanding of the topic.
4. **Do not copy your classmate's work; struggle through and do the work on your own.** This is how you learn.
5. Come see the teacher outside of class time for assistance.
6. Study the notes and vocabulary at least a few minutes every day, such as in homeroom or during any free time you might have in other classes.
7. If you don't understand, ask! Communication is vital for success in English.





Week	Content	Skill	Reading:	Assignments:	
1-2	<p>Google Classroom</p> <p>Learning to use the Smartboard</p> <p>Sentence Writing Present Simple: 's' and 'es' with verbs.</p> <p>Present Simple Review</p> <p>The Bicycle Spy Chapters 1-2</p>	<p>Technology</p> <p>Technology</p> <p>Writing/Listening</p> <p>Reading.</p>	<p>No Reading</p> <p>N/A</p> <p>"The Bicycle Spy" p. 1-18</p>	<p>Upload Picture to Google Classroom</p> <p>Writing #1</p> <p>Google Classroom Quiz</p> <p>Sentences with adverbs of frequency.</p> <p>Google Classroom Quiz P. 1-10, 11-20</p>	
3-4	<p>Grammar</p> <p>Grammar:</p> <p>Think 2 (SB) Think 2 (SB)/(WB)</p> <p>Bicycle Spy Chapters 3-4</p> <p>Reading in Think.</p> <p>Novel: The Bicycle Spy, Chapter 5-6</p>	<p>Grammar: Past Simple Articles: a, an, the</p> <p>Present Perfect/Past Simple: just, already, yet Listening Skills "I've Never"</p> <p>Article: "Human Moles"</p> <p>Reading</p>	<p>"The Bicycle Spy" p. 19-24</p>	<p>Quiz on Google Classroom Quiz on Google Classroom</p> <p>"Think 2: SB, p. 14 Ex 1-4 "Think 2" WB. p. 10-11</p> <p>SB: p. 15 WB: p. 12-13 Think 2: SB: p. 16-17 Google Classroom Quiz; p. 21-30, 31-40</p>	
5-6	<p>Present Continuous</p> <p>Grammar</p> <p>Novel: The Bicycle Spy Chapter 7-8</p>	<p>Reading/Writing</p> <p>Reading</p>	<p>Read pages 25-38</p>	<p>Writing Sentences</p> <p>Google Classroom Quiz: p.41-50, 51-60</p>	



Weeks:		Skills focused	Reading:	Assignments:
7-8	Grammar: Verb Tenses  Writing Sentences  Novel: The Bicycle Spy: Chapter 9-10	Grammar Past Simple/Past Continuous  Writing  Reading	     P. 39-45	Think: (SB) p. 76 (WB) p. 74  Students will write sentences
9-10	Review Week: Week 9 Exam Week: Week 10	Reading/Writing, Speaking	Review of Notes.	No Assignments
11-12	Articles: a, an, the, some, any The Bicycle Spy: "Chapter 4"	.Reading Simple  Reading	  p. 71-90, 91-100	
13-14	Commas and Periods  Brainstorming  Topic Sentences  The Bicycle Spy	Notes in class  Writing  Writing  Writing	Worksheets in class.  Notes in class.  Notes in class.  Chapter 11-12 p. 101-110, 11-120	Worksheet Assignment.  Doing a Mindmap  Writing a paragraph.
15-16	Relative Clauses: Listening Activity  The Bicycle Spy  Chapter 13-14	Writing  Listening   Reading  Reading	Notes in class       p. 121-130, 131-140	Writing Assignment
17-18	Conditionals: zero/1 <sup>st</sup> /2 <sup>nd</sup>  Read  The Bicycle Spy Chapter 15 (End of the book)	Grammar   Reading	Think (SB) Unit 6: p. 61 Think (WB): p. 56 Think (SB) Unit 8: p. 79 Think (WB) p. 74 p. 141-150, p. 151-160	None
19-20	Review Week: 19 Exam Week 20		Students will review work, do a review sheet and do the Exam for week 20.	



## **EN20201 M1 Supplemental English**

**Teacher:** Mr. Jonas Godson  
**Contact:** EP Teacher Room, 2<sup>nd</sup> floor Colombet Building  
[jonas.go@assumption.ac.th](mailto:jonas.go@assumption.ac.th)  
**Class Time:** EP – M1/1-4 two periods per week each class  
**Credits:** 1.5

### **Course Description**

This class will focus on improving the fundamental skills in English, in particular - reading, writing, listening and speaking. The students will embark on a journey beyond the traditional boundaries between exam preparation and real-world language with the Open World Key textbook. Each unit in the Student's Book explores a different topic, allowing students to build up their confidence as they acquire the language and skills needed for everyday English situations as well as exams. A unique exam journey maximizes students' performance, providing a systematic route to exam success. The Workbook consolidates and extends the language and exam skills covered in the Open World Student's Book and includes downloadable audio for the listening activities.

### **Textbook**

Open World A2 Key Cambridge Course book

### **Course Outline & Objectives**

#### **Week 1&2 – Open World Unit 1: A busy life**

- Vocabulary – Jobs and routines. collocations with *do, make, take* and *spend*
- Grammar – Lists with *and*, conjunctions *and, but, or, because*
- Writing – Writing an email about a job

#### **Week 3&4 – Open World Unit 2: Changing World**

- Reading – Living in a different country
- Vocabulary – Leisure activities, descriptive adjectives and adverbs
- Grammar – Comparative and superlative adjectives, comparative adverbs
- Writing – writing an email invitation / asking for information

#### **Week 5&6 – Open World Unit 3: Free time, screen time?**

- Reading – A professional video gamer
- Grammar – Simple and continuous tenses
- Writing – reviewing email structure

#### **Week 7&8 – Open World Unit 4: Keep fit, feel good**

- Reading – Amazing athletes
- Vocabulary – Sports and fitness
- Grammar – modal verbs, *must, have/had to, may, can, could*



**Week 9 – Revision of skills and content / Catch up on missed classes**

**Week 10&11 – Midterm exam week**

**Week 12&13 - Open World Unit 5: More than a holiday**

- Reading – A journey in the Gobi Desert
- Grammar – The future tenses
- Writing – Forming a story

**Week 14&15 – Open World Unit 6: Time for food**

- Vocabulary – Describing a dinner party, cooking instruments
- Grammar – The present and past simple
- Writing – Writing a recipe

**Week 16 & 17 – Open World Unit 7: Live life!**

- Reading – An interview with an actor
- Vocabulary – Hobbies
- Grammar – Word order in questions, verbs in the *-ing* form

**Week 18 - Revision of skills and content / Catch up on missed classes**

**Week 19 & 20 – Final Exam week**

*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 hand-outs, etc.)
- Textbook + 2 novels
- 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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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.

### **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 (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
$75\% \leq \textit{Final Score} < 80\%$	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**

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

Formative 1	25%
Formative 2	25%
Behavior	10% (program mandated)
Midterm Exam	20% (program mandated)
Final Exam	20% (program mandated)

### **Recommendations for Success**

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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.



## ST21101 **Foundation Science 1**

**Teacher** Ms. Darlene Howe

**Contact** EP Teachers' Office, 2<sup>nd</sup> Floor Colombet Bldg.

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

**Credits** 1.5

### Course Description

The Foundation Science course encompasses a multidisciplinary approach to learning. The course embraces the unique spirit of Assumption in delivering both a dynamic and holistic approach to learning; addresses the needs of individual students at varying academic levels. Foundation science topics include an introduction to matter and properties of matter. Students will perform the scientific method and develop skills in observation, data collection, experimentation, data representation, data interpretation, drawing conclusions and using standard units. Students will understand the importance of applying knowledge to real-life situations with responsibility, honesty, integrity, discipline, creativity, self-sufficiency, a scientific mind and a positive attitude. See course outline and objectives below.

### Textbook

Science Fusion: Matter and Energy (H). Holt McDougal (2012) ISBN- 978-0-547-58951-0  
HMH Online Learning Platform

### Course Outline & Objectives

Module A: Matter and Energy (Physical Science Text)

#### **UNIT 1: Matter (Matter and Energy, Unit 1 pages 1-96 and worksheets)** [Indicators 1-7]

Lesson 1: Introduction to Matter (pg 4-17)

- Define *matter*, *mass*, *weight*, *volume*, and *density*.
- Distinguish between mass and weight.
- Identify the equipment used to measure the mass and weight of an object.
- Determine the volume of a rectangular solid.
- Determine the volume of an object using displacement.
- Describe how mass, volume, and density are related.
- Calculate density, mass, or volume given two of the three variables.

Density Lab

Lesson 2: Properties of Matter (pg 20-33)

- Define *physical property* and *chemical property*.
- List common physical properties of matter.
- List common chemical properties of matter.
- Distinguish between physical properties and chemical properties.
- Use characteristic properties to identify substances.

Lesson 3: Physical and Chemical Changes (pg 34-45)



- Define *physical change* and *chemical change*.
- Identify physical changes of matter.
- Describe how temperature influences chemical changes.
- Differentiate between physical changes and chemical changes.
- Identify signs of chemical changes.
- Describe the law of conservation of mass.

### Mid-term Exams (Week 10-11)

#### Module D: Ecology and the Environment [Indicators FS5 4-25/ US5 1]

##### Lesson 4: Pure Substances and Mixtures (pg 50-63)

- Describe different ways in which the particles that make up matter can combine in various substances.
- Classify pure substances as elements or compounds.
- Name and classify examples of common elements and compounds.
- Compare homogenous mixtures and heterogeneous mixtures.
- Classify mixtures as solutions, colloids, and suspensions.
- Describe how various mixtures can be separated.

##### Lesson 5: States of Matter (pg 64-73)

- State that the particles (atoms and molecules) that make up matter are constantly in motion.
- Describe the motion of particles in solids, liquids, and gases
- Describe how the movement of particles (atoms and molecules) in solids affects the properties of solids.
- Describe how the movement of particles (atoms and molecules) in liquids affects the properties of liquids.
- Describe how the movement of particles (atoms and molecules) in gases affects the properties of gases.

##### Lesson 6: Changes of State (pg 74-89) -

- Explain what happens when a substance gains or loses energy.
- Explain that changes of state conserve energy.
- Explain melting and freezing.
- State the freezing point, melting point, and boiling point of water.
- Explain evaporation, boiling, and condensation.
- Explain sublimation and deposition.

### Final Exams (Week 20 -21)

#### Resources

- |          |  |
|----------|--|
| Required | <ul style="list-style-type: none"><li>• 1 notebook</li><li>• 1 plastic folder for course materials</li><li>• Red and blue pen. Liquid paper. Pencils. Ruler</li><li>• Headphones</li></ul> |
|----------|--|





- 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.



### **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:

Notebook/ Class participation/ Quiz	20%
Labs/ projects	20%
STEM	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 during the 9 pm hour 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.



## **ST20201 Universal Science 1**

**Teacher** Ms. Darlene Howe

**Contact** Teachers' Office, 2<sup>nd</sup> Floor Colombet Bldg.

**Class Time** EP-M1/1: Tuesday, period 4; Friday, period 4  
EP-M1/2: Monday, period 6; Wednesday, period 1  
EP-M1/3: Wednesday, period 4; Thursday, period 5  
EP-M1/4: Tuesday, period 2; Thursday, period 3

**Credits** 1.0

### **Course Description**

The Universal Science course encompasses a multidisciplinary approach to learning. The course embraces the unique spirit of Assumption in delivering both a dynamic and holistic approach to learning; addresses the needs of individual students at varying academic levels. The course offers to cover aspects of scientific investigation, cell structure and function as well as plant physiology and matter. The first half of the course, before the midterm exam, is heavily focused on science laboratory basics and cell processes. Students will perform the scientific method and develop skills in observation, data collection, experimentation, data representation, data interpretation, drawing conclusions and using standard units. Students will understand the importance of applying knowledge to real-life situations with responsibility, honesty, integrity, discipline, creativity, self-sufficiency, a scientific mind and a positive attitude. See course outline and objectives below.

### **Textbook**

Focus Smart Plus Science Mathayom 1 (2018) ISBN- 978-0-547-58945-9  
Science Fusion: Cells and Heredity (H). Holt McDougal (2012) ISBN- 978-0-547-58936-7  
HMH Online Learning Platform

### **Course Outline & Objectives**

Module A: Cells and Heredity

**The Science Process** (handouts and worksheets for Unit 1) [Indicators SC20201 1-7]

Lesson 1: Science Laboratory

- Recognize the importance of using a science lab to study science.
- Identify safe and unsafe practices for students in a science laboratory.
- Use lab equipment correctly

**UNIT 1: Cells (Cells and Heredity, Unit 1 and class worksheets)** [Indicators 8-19]

Lesson 1: The Characteristics of Cells (pg 4-13)

- Describe the relationship between cells and organisms.
- Perform an experiment to help explain why most cells are small in terms of their surface-area-to-volume ratio.



- Summarize the cell theory.
- Compare unicellular and multicellular organisms.
- Identify the parts that all cells have in common.

Lesson 3: Cell Structure and Function (pg 24-35)

- Recognize how prokaryotes differ from eukaryotes.
- Describe the cell membrane, cytoskeleton, and nucleus.
- Describe the structure and function of organelles found in eukaryotic cells, including mitochondria, ribosomes, endoplasmic reticulum, and Golgi complex.

-----End of Midterm Exam Content -----

-----Start of Final Exam Content-----

Module A: Cell and heredity

**UNIT 1: Cells (class worksheets)** [Indicators SC20201 1-7]

Lesson 5: Homeostasis and Cell Processes

- Explain why homeostasis is important for survival.
- Identify the needs of cells.
- Explain that homeostasis is maintained at the cellular level and at higher levels
- Discuss why exchange is important for cells.
- Compare passive transport and active transport.

Lesson 6: Photosynthesis and Cellular Respiration (pg 66-77)

- State that all organisms need energy.
- Explain how organisms get energy.
- Define and describe photosynthesis.
- List the starting materials and the products of photosynthesis.
- State the location where photosynthesis takes place.
- Define and describe cellular respiration.
- List the starting materials and the products of cellular respiration.
- State the location where cellular respiration takes place.

Photosynthesis Lab

Unit Review (pg 90-96)

**Resources**

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



### **Academic Integrity Policy**

---

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### **Behavioral Expectations**

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

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

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

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

### **Attendance & Tardiness**

---

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

### **Homework & Class work**

---

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



## Grading

This course follows to the Assumption College grading scale:

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

## Evaluation and Assessment

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

Class work & homework	10%
End of Unit Tests & Quizzes	20%
Labs and projects	20
Behavior / Participation	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 by 8 or 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 ability to learn.



## **ST20221 Supplemental Science 1**

**Teacher** Mr. Nicholas Crook (Mr. Nik)

**Contact** EP Science Lab Office, 2<sup>nd</sup> Floor Colombet Bldg.  
Nicholas.Cr@Assumption.ac.th

**Credits** 1.5

### **Course Description**

This is a mostly hands-on course with a focus on problem solving and active learning. Students are presented with information and then given problems to solve. Experimentation using the scientific method is the main focus. Instead of telling the students what experiments to do, the teacher supports students as they design their own science experiments. 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. Scientific Experimentation**

- 1.1 Practices and Guidelines for Science Experiments
- 1.2 General Science Lab Equipment
- 1.3 Use of Equipment for Weighing and Measuring
- 1.4 Basic Lab Techniques
- 1.5 Use of Microscopes
- 1.6 Data Recording and Lab Reports

#### **2. S.T.E.A.M. Project Prototype Completion and Group Presentation**

- 2.1 Prototype Building
- 2.2 Prototype Testing
- 2.3 Prototype Improvement
- 2.4 Group Presentations

End of Midterm Exam Content – Start of Final Exam Content
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#### **3. Student-designed Experiments with Real-World Implications/Connections**

- 2.1 Student-directed Chemistry Experiments
- 2.2 Student-directed Biology Experiments
- 2.3 Student-directed Physics Experiments

### **Resources**

- |           |   |
|-----------|---|
| 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>• 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**

---

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**

---

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. 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:

$Final\ Score \geq 80\%$	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:

Labwork	20%
Notebooks	20%
Behavior/Participation (Affective Domain)	10%
Quizzes	10%
Midterm Project/Exam	20%
Final Project/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.



## **HP21101 Foundation Health Studies 1**

**Teacher:** Mr. Grant Shorten

**Contact:** Teachers Room, 2nd Floor Colombet Building.  
grant.sh@assumption.ac.th

**Class Time:** EP-M1/1-4

**Credits:** 0.5

### **Course Description**

The M1 Foundation Health Studies course offers an in-depth exploration of the critical aspects of health and development during adolescence. This course is designed to provide students with a comprehensive understanding of the physiological, psychological, and social changes that occur during this pivotal stage of life. Through a combination of theoretical knowledge and practical application, students will learn to analyse and support healthy growth and development in adolescents. This course is essential for students pursuing careers in healthcare, education, social work, or any field that involves working with adolescents. It equips future professionals with the knowledge and tools to foster a supportive and healthy environment for young people during their formative years.

### **Textbook**

McGraw Hill Teen Health Book

External Resources

### **Course Outline & Objectives**

#### **1. Nervous and Endocrine System:**

- Understanding the changes in the nervous system that affect cognitive and emotional development during adolescence.
- Examining the impact of brain maturation on behaviour and decision-making.

#### **2. Growth in Adolescence Stage:**

- Overview of the growth spurts and developmental milestones characteristic of adolescence.
- Factors influencing physical growth and health outcomes during this period.

#### **3. Growth Standard Criteria:**

- Introduction to growth charts and standard criteria for assessing physical development.
- Interpretation of growth data to identify typical and atypical growth patterns.

#### **4. Normal Growth and Development:**

- Detailed examination of the benchmarks for normal growth and development.
- Understanding the variations in growth rates and patterns among adolescents.

#### **5. Guidelines to Analyse Growth and Development in Adolescents:**

- Tools and techniques for monitoring and evaluating adolescent growth and development.
- Application of these guidelines in educational and healthcare settings.

#### **6. Physical Changes in Adolescents:**

- Exploration of the significant physical changes, including puberty and sexual maturation.
- Impact of these changes on self-image and health behaviours.



7. **Mental and Emotional Changes:**
  - Insight into the mental health challenges and emotional fluctuations during adolescence.
  - Strategies for supporting adolescents through these changes.
8. **Teenage Sexual Development:**
  - Comprehensive overview of sexual development stages during adolescence.
  - Discussion on healthy sexual development and education.
9. **Sexual Deviation:**
  - Understanding the concept of sexual deviation and its implications.
  - Identifying and addressing inappropriate sexual behaviours.
10. **Meaning and Types of Sexual Harassment:**
  - Defining sexual harassment and its various forms.
  - Legal and ethical considerations surrounding sexual harassment in adolescent contexts.
11. **Effects of Being the Victim of Sexual Harassment:**
  - Psychological and physical impacts on victims of sexual harassment.
  - Long-term consequences and coping mechanisms.
12. **Preventions and Avoidance from Harassment:**
  - Strategies and interventions to prevent sexual harassment.
  - Creating safe environments for adolescents in schools and communities.
13. **Refusal Skills to Prevent Sexual Harassment:**
  - Teaching adolescents effective refusal skills to protect themselves.
  - Role-playing and practical exercises to build confidence and assertiveness.

### **Learning Outcomes:**

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

- Analyse and interpret adolescent growth and development using standard criteria and guidelines.
- Understand the physical, mental, and emotional changes that occur during adolescence.
- Identify and address issues related to sexual development and harassment.
- Apply practical strategies to support healthy development and prevent harassment in adolescents.
- Empower adolescents with the skills to navigate the challenges of growth and development confidently.

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

grant.sh@assumption.ac.th

### **Resources Required**

A plastic folder for worksheets.

White School Notebook

Red and blue pen

Ruler



### **Academic Integrity Policy**

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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. 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**

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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, 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**

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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 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> $\geq 80\%$	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:

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

## **Recommendations for Success**

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

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



## **ST20251 Computer for Education 1**

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**Teacher** Mr. Matt Harris  
**Contact** Location: 5th Floor Computer Lab  
**Class Time** EP-M 1/1: Wednesday 14:00 – 14:50  
EP-M 1/2: Monday 13:00 – 13:50  
**Credits** 1.0

### **Course Description**

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Study about evolution/roles of the internet, principles on searching for information on the internet, practice of searching for information, producing printing media such as postcards, report cover, portfolio cover and PR documents. Use in learning the practicing skills and analytical skills in order to acquire knowledge, understanding, ability to communicate, and ability to use technology. Integrated in learning the desired characteristics: honesty, public mindedness, determination in learning, and eagerness to learn.

### **Course Outline & Objectives**

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Topics include: [Indicator 1, 2]

#### **Computer for Education 1** [Indicator 1, 2]

<b>Information Technology</b>
Week 1: Operating systems
Week 2: Microsoft Office
Week 3: Presentations
Week 4-5: Databases and data driven experiments
Week 6-7: Client/Server architecture
<b>Midterm Exam (Week 8 and 9; Dec 15-23)</b>
Week 10-12: Automation & Web Technologies
Week 13: Computer Crimes & Internet Security
Week 14-15: Hardware and Software
<b>Final Exam (Week 16; Feb 8–12)</b>



### **Resources**

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

### **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. A behavior score (out of 10 points) is taken every day. At the end of the semester the average is taken and used for the student's behavior score (10%). Students *earn* the scores they receive.

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

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

### **Attendance & Tardiness**

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

### **Homework & Classwork**

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



### **Grading**

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.