

Assumption University
Theodore Maria School of Arts
Department of General Education
Course Outline 1/2025

Course : GE 2103 Art of Reasoning
Credit : 3
Status : Core Course Requirement / Free Elective
Prerequisite : None
Lecturers : A. Jamorn K. and Dr. Nath N.

Course Description: Fundamental analysis of logical elements and rational applications for daily life emphasizing on deductive and inductive methods of validity and fallacy

Course Objectives: The course aims to enable students to:

1. Contextually understand radical meaning and function of linguistic means in English language formats so that they are able to write and speak English properly according to personal intention
2. conceptualize the relationship of rational procedures among mental, logical and grammatical sources as well as the origin of each rational element;
3. justify valid and invalid status of arguments according to logical principles;
4. able to compose valid arguments relevant to logical principles; and,
5. commonly apply logical principles for an appropriate decision making in each particular case and situation.

Teaching-Learning Activities: Lectures and discussions between learners and facilitators in classroom setting.

Course Components and Mark Allocation:

Class assignment	10%
Class attendance	10%
Group Discussion	10%
Quizzes	10%
Logical Expression Activity	20%
Reasoning Activity	15%
Final Examination	<u>25%</u>
Total	<u>100%</u>

Information

- Checking attendance will be done about 20-30 minutes after starting class.
- All quizzes will be conducted in class period at SG 503.
- Group discussion and class assignment will be conducted in class period at the classroom.

Attendance Requirement : At least 80% attendance is required for the final examination.
(Maximum number of absences = 6 periods)

Evaluation	:	80 % - 100 %	=	A
		78 % - 79 %	=	A-
		73 % - 77 %	=	B+
		70 % - 72 %	=	B
		68 % - 69 %	=	B-
		63 % - 67 %	=	C+
		60 % - 62 %	=	C
		58 % - 59 %	=	C-
		50 % - 57 %	=	D
		Below 50 %	=	W

Materials:

Hurley, P.J. (1988). *A Concise Introduction to Logic*. Belmont, California: Wadsworth.

Suggested Readings :

Carlsen-Jones, M. (1983). *Introduction to Logic*. N.Y.: McGraw-Hill.

Copi, I. M. (1986). *Introduction to Logic*. N.Y. : MacMillan.

Inch, E. S. and Warnick, B.(1998). *Critical Thinking and Communication: The use of Reason in Argument*. Boston: Allyn and Bacon.
Harrison, F.R. (1992). *Logic and Rational Thought*. St. Paul, MN: West.
Hurley, P.J. (1988). *A Concise Introduction to Logic*. Belmont, California: Wadsworth.
Kelley, D. (1990). *The Art of Reasoning*. NY: WW Norton & Company.

Study Plan and Schedule

Week I

- General Introduction on Contextualization of Rationalization
- History of Rationalization
- Benefits from studying Art of Reasoning

Week II

- Significance of Language in Logic: Process of Understanding and Strategies of Definition: Certainty
- Argumentative matters:
 - Lingual elements: words, sentences, arguments
 - Characters of statements: -Classification
 - Characters of argument: -Validation status i.e. Valid or invalid

Week III

- Term and Process of Term Construction based on strategy of definition composition
- Types and Functions of Term
- Figurative demonstration of terms:
 - Euler's Diagram
 - Venn's Diagram

Week IV

- Proposition Types and Process of Proposition Construction
- Proposition and Figurative Understanding in Euler's and Venn's Diagrams

Week V

- Transformations of Ordinary Grammatical Sentences to Logical Proposition
- Transformation of Logical Proposition to Grammatical Sentence
- Square of Opposition and Truth Values

Week VI

- Deductive Argument and Six Rules of Syllogistic Validity

Week VII

- Application of Validation Status Checking by Six Rules for Deductive Argument
- Quiz I

Week VIII

- Group Discussion
- Composition of Valid Syllogism
- Composition of Valid deductive argument in grammatical pattern

Week IX

- General Introduction to Enthymeme
- Formats of Enthymeme

Week X

- Enthymeme and Criticism: General Patterns of Criticism
- Application of Logical Criticism on: (1) Business, (2) Ethics, (3) Politics and (4) Religion.
- Logical Criticism and Contemporary Crises

Week XI

- Compound statements
- Truth-Value of Compound Statements
- Truth-Value of Compound Statements and Its Application

Week XII

- 10 Valid Formats of Compound Statement Argument (Syllogistic Logical Formulae)

Week XIII

- 10 Valid Formats of Compound Statement Argument and Their Applications
- Quiz II

Week XIV

- Individual Assignment
- Inductive Argument
 - Method of Agreement
 - Method of Difference
 - Method of Residue
 - Method of Concomitant Variation

Week XV

- Fallacies
 - Formal Fallacies
 - Material Fallacies
 - Psychological Fallacies
- Final Summary

-----**Final Examination**-----
Date: October 3, 2025 ; Time: 9.00 – 12.00 hrs.

September 19, 2025: Last day to withdraw with “W”

LOCATION AND CONTACT INFORMATION GENERAL EDUCATION (GE) office hours are Monday through Friday, 8.30 a.m. – 16.30 p.m. Office Location: CL10 Phone : 02-7832222 Ext.2485 Email Address: general_education@au.edu
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VISION

Assumption University of Thailand envisions itself as :

- an international community of scholars,
- enlivened by Christian inspiration,
- engaged in the pursuit of Truth and Knowledge,
- serving human society, especially through the creative use of interdisciplinary approaches and cybertechnology.

VISION 2000 FOR ASSUMPTION
UNIVERSITY GRADUATES

Assumption University of Thailand envisions its graduates as :

- healthy and open-minded persons, characterized by personal integrity, an independent mind, and positive thinking,
- professionally competent, willing to exercise responsible leadership for economic progress in a just society,

- able to communicate effectively with people from other nations and to participate in globalization.

Au UNIQUENESS

“An International Catholic University”

Au IDENTITY

- Ethics
- English Proficiency
- Entrepreneurial Spirit

THEODORE MARIA SCHOOL OF ARTS (www.arts.au.edu) VISION AND MISSION

Vision

An international community of business communicators in Thailand

Mission

Theodore Maria School of Arts will ensure that: the School will...

1. Enhance business language skills
2. Promote cultural awareness
3. Foster academic networking
4. Encourage ethical standards and practices

TAGLINE

เติมเต็มศิลปภาษา พัฒนาศาสตร์ธุรกิจ

Language Education, Business Inspiration

ARTS ORGANIZATIONAL CULTURE: More than faculty, we are family

- Open communication
- Mentoring system
- Dedication
- Caring
- Teamwork
- Commitment
- Resource sharing

Core Values

A = Adaptability

R = Responsibility

T = Togetherness

S = Sustainability

Core Competencies

Employability

Multiculturalism

Internationalization

Quality Assurance Process

Students should understand and apply the Quality Assurance Process in their study. The Plan-Do-Check-Act Cycle (PDCA) provides an easy but effective approach for problem solving and managing change, ensuring that ideas are appropriately tested before the full implementation. It can be used in all sorts of situations and can be clarified as follows:

Plan: Define the current problem, process, and issue and establish objectives and processes required to deliver the desired results.

Do: Implement the plans and new processes developed.

Check: Monitor and evaluate the implemented process by testing the results against the predetermined objectives.

Act: Apply actions necessary for improvement if the results require changes.

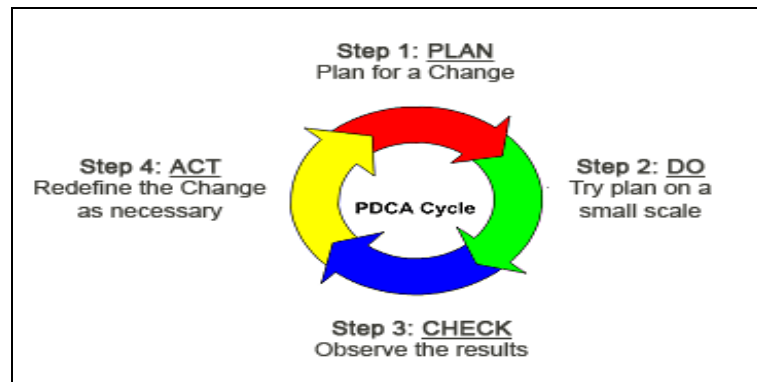


Figure 1: PDCA Cycle (<http://www.swopehealth.org>)

Plagiarism

Plagiarism is a serious academic offence, a serious breach of ethical conduct and is unacceptable student behavior. Students who plagiarize copying words or ideas without acknowledging the original writer of the words or ideas, will face disciplinary action. This will range from receiving an “F” in the subject to university suspension.

THEODORE MARIA SCHOOL OF ARTS Advising and Counseling 1/2025

All Arts students (Business English, Business French, Business Chinese, Business Japanese, and English - Chinese for Digital Communication) must meet with their advisors before they pre-register for the 2/2025 semester. Students who fail to come for their advising and counseling session will not be allowed to register for 2/2025 during the pre-registration period.

Names of advisors for semester 1/2025 will be posted on the faculty website (www.arts.au.edu), at CL 11 and on the Department Boards at SM Bldg. Arts students are required to check their advisors’ names every semester and meet with them before the pre-registration.

Dress code for attending class and obtaining class attendance

To obtain permission to attend classes and be granted class attendances, undergraduate students are obligated to strictly comply with permissible classroom entry time stipulated in the provided course syllabus as well as the university dress codes. Ref: Assumption University of Thailand Regulations of Uniform and Dress Code for Day Program Students, issued on January 22, 2021 (<https://sa.au.edu/>)