

SEMESTER STUDY PLAN
ENGLISH FOR MATHEMATICS
(COMPULSORY COURSE)
(Project Based Learning Method)



DEPARTMENT OF MATHEMATICS AND DATA SCIENCE
FACULTY OF MATHEMATICS AND NATURAL SCIENCES
UNIVERSITAS ANDALAS

2024



SEMESTER STUDY PLAN (SSP)
BACHELOR PROGRAM OF MATHEMATICS
FACULTY OF MATHEMATICS AND NATURAL SCIENCES
UNIVERSITAS ANDALAS

Course Name		Course Code	URL I-Learn	Credits	Semester	Compilation Date
English for Mathematics		MAT61101	https://sci.ilearn.unand.ac.id	2	1	12 May 2024
Person In Charge		Study Plan Creator		Head of Research Group	Head of Study Program	
		Dr. Noverina Alfiany Radhiatul Husna, M.Si		Dr. Ahmad Iqbal Baqi	Dr. Noverina Alfiany	
Intended Learning Outcomes (ILO) and Performance Indicator (PI)	Intended Learning Outcomes					
	ILO-7	An ability to communicate effectively especially in the area of mathematics in with diverse communities PI-1: An ability to convey ideas or study results orally, especially in the field of mathematics PI-2: An ability to present ideas or study results in writing, especially in the field of mathematics PI-3: An ability to respond to feedback given				
	ILO-8	An ability to work in team PI-1: An ability to actively participate in a team with full responsibility PI-2: An ability to respond well to any feedback within the team PI-3: An ability to complete tasks according to the set schedule PI-4: An ability to adapt in a team				
	Course Learning Outcomes					
	1	An ability to understand mathematical terms in English (ILO-7: PI-1, PI-2, PI-3).				
	2	An ability to recognize and use grammar well and correctly (ILO-7: PI-1, PI-2, PI-3).				
	3	An ability to understand reading and reading comprehension well and correctly (ILO-7: PI-1, PI-2, PI-3).				

	4	An ability to translate English text into Indonesian and vice versa properly and correctly (ILO-7: PI-2; PI-2, PI-3).
	5	An ability to write simple Academic Writing that complies with English rules (ILO-7: PI-1, PI-2, PI-3).
	6	An ability to think critically, analytically, and innovatively, both individually and in groups (ILO-8: PI-1, PI-2, PI-3, PI-4).
	7	An ability to argue logically and structured in small or large groups (ILO-8: PI-1, PI-2, PI-3, PI-4).
Brief Description	In this course, the topics of grammar, reading, speaking and listening, translation, reading comprehension, and introduction to simple academic writing and speaking will be discussed. These topics are divided into fourteen (14) meetings, seven (7) times before the midterm exam and seven (7) times after the midterm exam. This lecture is carried out using the Project Based Learning (PjBL) learning method where at the end of the lecture students are required to complete and present a large project in groups.	
Course Materials	<ol style="list-style-type: none"> 1. Pronouns; 2. Tenses (active verb); 3. Tenses (passive verb); 4. Adjectives and adverbs; 5. Conjunctions and comparatives; 6. Prepositions; 7. Introduction to writing and presentation of the Mathematical Problems in English: Writing, Reading, Presentation, and Speaking. 	
References	Main: <ol style="list-style-type: none"> 1. https://www.englisch-hilfen.de/ 2. Vivaldi. F, Mathematical Writing for Undergraduate Student, Queen Mary, London, 2013. Additional: <ol style="list-style-type: none"> 3. Phuong, HT. & Van L.T.K., English for Mathematics, Ho hi Minh City, 2003. 	
Learning Media	Software:	Hardware:

	<ul style="list-style-type: none"> • LMS Unand (http://fmipa.ilearn.unand.ac.id/) • Zoom meeting • Whatsapp 	<ul style="list-style-type: none"> • Computer/Laptop • Smartphone
Team Teaching	<ol style="list-style-type: none"> 1. Dr. Noverina Alfiany 2. Mwanda Almuhayar, M.Sc 3. Ikhlas Pratama Sandy, M.Si 	
Assessment	Homework, Quizzes, Mid-Term exam, Project	
Required courses	-	
Academic Norms	https://akademik.unand.ac.id/images/2022-03-30%20Peraturan%20Rektor%20Nomor%207%20Tahun%202022%20Penyelenggaraan%20Pendidikan-khusus%20Bab%20II.pdf	

Weekly Study Plan

Week / Meet (1)	Course Outcomes (2)	Indicator (3)	Assessment (4)	Activities/Forms of Learning [Time estimated]					Subject, references (10)	Weight (11)
				Synchronous*		Asynchronous**		Media (9)		
				Face to face Offline (5)	Face to face Online (6)	Individual (7)	Collaboration (8)			
1/1	CLO-1 An ability to understand mathematical terms in English (ILO-7: PI-1, PI-2, PI-3)	<ul style="list-style-type: none">● Discipline in carrying out course contracts● Accurate understanding of related material● Accuracy in answering assignment questions● Neatness of task execution● Originality of task results	Non-test: Homework 1 (2 %) Test: Mid-term exam: 2,5%	Teaching and discussion: - Introduction to SSP - material explanation - task explanation - discussion and question-and-answer lecture material - brief explanation of the final project [1 x 2 x 50 minute]		Students read and study the learning materials individually [1 x 2 x 120 minute]		<ul style="list-style-type: none">● PPT● i-learn (LMS Unand) (Specific condition: Zoom meeting, WA group, learning video)	<ul style="list-style-type: none">● Assessment Rules, SSP, Syllabus, Tuition Contract● Pronouns: Subject pronouns, object pronouns, possessive pronouns, relative pronouns, reflexive pronouns, and reciprocal pronouns [1], [2], [3]	4,5%

2/2	CLO-2 An ability to recognize and use grammar well and correctly (ILO-7: PI-1, PI-2, PI-3)	<ul style="list-style-type: none"> • Discipline in carrying out course contracts • Accurate understanding of related material • Accuracy in answering assignment questions • Neatness of task execution • Originality of task results 	Non-test: Homework 2 (2 %) Test: Mid-term exam: 2,5%	Teaching and discussion: - material explanation - task explanation - discussion and question-and-answer lecture material [1 x 2 x 50 minute]	(Certain conditions: total <i>blended learning</i> 40%)	Students read and study the learning materials individually [1 x 2 x 60 minute]	Students discuss in groups about lecture material and assignments [1 x 2 x 60 minutes]	<ul style="list-style-type: none"> • PPT • i-learn (LMS Unand) (Specific condition: Zoom meeting, WA group, learning video)	<ul style="list-style-type: none"> • Tenses (active verb): Auxiliary verbs, linking verbs, modal verbs, and kinds of tenses [1], [2], [3]	4,5%
3/3	CLO-3 An ability to understand reading and reading comprehension well and correctly (ILO-7: PI-1, PI-2, PI-3)	<ul style="list-style-type: none"> • Discipline in carrying out course contracts • Accurate understanding of related material • Accuracy in answering assignment questions • Neatness of task execution • Originality of task results 	Non-test: Homework 3 (2 %) Test: Mid-term exam: 2,5%	Teaching and discussion: - material explanation - task explanation - discussion and question-and-answer lecture material [1 x 2 x 50 minute]	(Certain conditions: total <i>blended learning</i> 40%)	Students read and study the learning materials individually [1 x 2 x 60 minute]	Students discuss in groups about lecture material and assignments [1 x 2 x 60 minutes]	<ul style="list-style-type: none"> • PPT • i-learn (LMS Unand) (Specific condition: Zoom meeting, WA group, learning video)	<ul style="list-style-type: none"> • Tenses (passive verb): Auxiliary verbs, linking verbs, modal verbs, and kinds of tenses [1], [2], [3]	4,5%

4/4	CLO-4 An ability to translate English text into Indonesian and vice versa properly and correctly (ILO-7: PI-2; PI-2, PI-3)	<ul style="list-style-type: none"> • Discipline in carrying out course contracts • Accurate understanding of related material • Accuracy in answering assignment questions • Neatness of task execution • Originality of task results 	Non-test: Homework 4 (2 %) Test: Mid-term exam: 2,5%	Teaching and discussion: - material explanation - task explanation - discussion and question-and-answer lecture material [1 x 2 x 50 minute]	(Certain conditions: total <i>blended learning</i> 40%)	Students read and study the learning materials individually [1 x 2 x 60 minute]	Students discuss in groups about lecture material and assignments [1 x 2 x 60 minute]	<ul style="list-style-type: none"> • PPT • i-learn (LMS Unand) (Specific condition: Zoom meeting, WA group, learning video)	<ul style="list-style-type: none"> • Adjectives and adverbs: Adjectives expressing, adjectives ending, collective adjectives, degrees of adjectives, dan the order of adjectives, adverbs position, kind of adverbs, order of adverbs, dan relative adverbs [1], [2], [3]	4,5%
5/5	CLO-4 An ability to translate English text into Indonesian and vice versa properly and correctly (ILO-7: PI-2; PI-2, PI-3)	<ul style="list-style-type: none"> • Discipline in carrying out course contracts • Accurate understanding of related material • Accuracy in answering assignment questions 	Non-test: Homework 5 (2 %) Test: Mid-term exam: 5%	Teaching and discussion: - material explanation - task explanation - discussion and question-and-answer lecture material	(Certain conditions: total <i>blended learning</i> 40%)	Students read and study the learning materials individually [1 x 2 x 60 minute]	Students discuss in groups about lecture material and assignments [1 x 2 x 60 minute]	<ul style="list-style-type: none"> • PPT • i-learn (LMS Unand) (Specific condition: Zoom meeting, WA group,	<ul style="list-style-type: none"> • Conjunctions and comparatives: Coordinating conjunctions, subordinating conjunctions, correlative conjunctions, dan other conjunctions, 	7%

		<ul style="list-style-type: none"> • Neatness of task execution • Originality of task results 		[1 x 2 x 50 minute]				learning video)	similarity, difference, estimates, degree of comparison, double and illogical comparatives [1], [2], [3]	
6/6	CLO-4 An ability to translate English text into Indonesian and vice versa properly and correctly (ILO-7: PI-2; PI-2, PI-3)	<ul style="list-style-type: none"> • Discipline in carrying out course contracts • Accurate understanding of related material • Accuracy in answering assignment questions • Neatness of task execution • Originality of task results 	Non-test: Homework 6 (5 %) Test: Mid-term exam: 5%	Teaching and discussion: - material explanation - task explanation - discussion and question-and-answer lecture material [1 x 2 x 50 minute]	(Certain conditions: total <i>blended learning</i> 40%)	Students read and study the learning materials individually [1 x 2 x 60 minute]	Students discuss in groups about lecture material and assignments [1 x 2 x 60 minute]	<ul style="list-style-type: none"> • PPT • i-learn (LMS Unand) (Specific condition: Zoom meeting, WA group, learning video)	<ul style="list-style-type: none"> • Prepositions: Nouns and prepositions, adjectives and prepositions, verbs and prepositions, dan prepositions in parallel form [1], [2], [3]	10%
7/7	CLO-4 An ability to translate English text into Indonesian and vice versa	<ul style="list-style-type: none"> • Discipline in carrying out course contracts • Accurate understanding 	Non-test: Homework 7 (5 %) Test: Mid-term exam: 5%	Teaching and discussion: - material explanation - task explanation	(Certain conditions: total <i>blended learning</i> 40%)	Students read and study the learning materials individually [1 x 2 x 60 minute]	Students discuss in groups about lecture material and assignments	<ul style="list-style-type: none"> • PPT • i-learn (LMS Unand) 	<ul style="list-style-type: none"> • Divide final project groups • Discuss final project rules • Plan discussion 	10%

	properly and correctly (ILO-7: PI-2; PI-2, PI-3)	<ul style="list-style-type: none"> of related material • Accuracy in answering assignment questions • Neatness of task execution • Originality of task results 		<ul style="list-style-type: none"> - discussion and question-and-answer lecture material <p>[1 x 2 x 50 minute]</p>			[1 x 2 x 60 minute]	(Specific condition: Zoom meeting, WA group, learning video)	meetings	
8	MID-TERM EXAM									
9/9	CLO-5 An ability to write simple Academic Writing that complies with English rules (ILO-7: PI-1, PI-2, PI-3)	<ul style="list-style-type: none"> • Discipline in carrying out course contracts • Accurate understanding of related material • Accuracy in answering assignment questions • Neatness of task execution • Originality of task results 	Non-test: Project Test:	<ul style="list-style-type: none"> • Discussion and giving opinions in large and small groups • Presentation of final project results <p>[1 x 2 x 50 minute]</p>	(Certain conditions: total <i>blended learning</i> 40%)	Students read and study the learning materials individually [1 x 2 x 60 minute]	Students discuss in groups about lecture material and assignments [1 x 2 x 60 minute]	<ul style="list-style-type: none"> • PPT • i-learn (LMS Unand) <p>(Specific condition: Zoom meeting, WA group, learning video)</p>	<ul style="list-style-type: none"> • Introduction to writing and presentation of the Mathematical Problems in English: Writing, Reading, Presentation, and Speaking • Final project discussion <p>[1], [2], [3]</p>	
10/10	CLO-5 An ability to write simple Academic Writing that	<ul style="list-style-type: none"> • Discipline in carrying out course contracts 	Non-test: Project Test:	<ul style="list-style-type: none"> • Discussion and giving opinions in large and 	(Certain conditions: total <i>blended learning</i> 40%)	Students read and study the learning materials individually	Students discuss in groups about lecture	<ul style="list-style-type: none"> • PPT • i-learn (LMS Unand) 	<ul style="list-style-type: none"> • Introduction to writing and presentation of the Mathematical 	

	complies with English rules (ILO-7: PI-1, PI-2, PI-3)	<ul style="list-style-type: none"> • Accurate understanding of related material • Accuracy in answering assignment questions • Neatness of task execution • Originality of task results 		<ul style="list-style-type: none"> • small groups • Presentation of final project results [1 x 2 x 50 minute] 		[1 x 2 x 60 minute]	material and assignments [1 x 2 x 60 minute]	(Specific condition: Zoom meeting, WA group, learning video)	<ul style="list-style-type: none"> • Problems in English: Writing, Reading, Presentation, and Speaking • Final project discussion <p>[1], [2], [3]</p>	
11/11	CLO-6 An ability to think critically, analytically, and innovatively, both individually and in groups (ILO-8: PI-1, PI-2, PI-3, PI-4)	<ul style="list-style-type: none"> • Discipline in carrying out course contracts • Accurate understanding of related material • Accuracy in answering assignment questions • Neatness of task execution • Originality of task results 	Non-test: Project Test:	<ul style="list-style-type: none"> • Discussion and giving opinions in large and small groups • Presentation of final project results [1 x 2 x 50 minute] 	(Certain conditions: total <i>blended learning</i> 40%)	Students read and study the learning materials individually [1 x 2 x 60 minute]	Students discuss in groups about lecture material and assignments [1 x 2 x 60 minute]	<ul style="list-style-type: none"> • PPT • i-learn (LMS Unand) <p>(Specific condition: Zoom meeting, WA group, learning video)</p>	<ul style="list-style-type: none"> • Introduction to writing and presentation of the Mathematical Problems in English: Writing, Reading, Presentation, and Speaking • Final project discussion <p>[1], [2], [3]</p>	
12/12	CLO-6 An ability to think critically, analytically,	<ul style="list-style-type: none"> • Discipline in carrying out course contracts 	Non-test: Project Test:	<ul style="list-style-type: none"> • Discussion and giving opinions in 	(Certain conditions: total <i>blended learning</i> 40%)	Students read and study the learning	Students discuss in groups about lecture material	<ul style="list-style-type: none"> • PPT 	<ul style="list-style-type: none"> • Introduction to writing and presentation of the 	

	and innovatively, both individually and in groups (ILO-8: PI-1, PI-2, PI-3, PI-4)	<ul style="list-style-type: none"> • Accurate understanding of related material • Accuracy in answering assignment questions • Neatness of task execution • Originality of task results 		large and small groups <ul style="list-style-type: none"> • Presentation of final project results [1 x 2 x 50 minute] 		materials individually [1 x 1 x 60 minute]	and assignments [1 x 1 x 60 minutes]	<ul style="list-style-type: none"> • i-learn (LMS Unand) (Specific condition: Zoom meeting, WA group, learning video)	Mathematical Problems in English: Writing, Reading, Presentation, and Speaking <ul style="list-style-type: none"> • Final project discussion [1], [2], [3] 	
13/13	CLO-7 An ability to argue logically and structured in small or large groups (ILO-8: PI-1, PI-2, PI-3, PI-4)	<ul style="list-style-type: none"> • Discipline in carrying out course contracts • Accurate understanding of related material • Accuracy in answering assignment questions • Neatness of task execution • Originality of task results 	Non-test: Project Test:	<ul style="list-style-type: none"> • Discussion and giving opinions in large and small groups • Presentation of final project results [1 x 2 x 50 minute] 	(Certain conditions: total <i>blended learning</i> 40%)	Students read and study the learning materials individually [1 x 1 x 60 minute]	Students discuss in groups about lecture material and assignments [1 x 1 x 60 minutes]	<ul style="list-style-type: none"> • PPT • i-learn (LMS Unand) (Specific condition: Zoom meeting, WA group, learning video)	<ul style="list-style-type: none"> • Introduction to writing and presentation of the Mathematical Problems in English: Writing, Reading, Presentation, and Speaking • Final project discussion [1], [2], [3] 	55%
14/14	CLO-7 An ability to argue logically and structured	<ul style="list-style-type: none"> • Discipline in carrying out course contracts 	Non-test: Project Test:	<ul style="list-style-type: none"> • Discussion and giving opinions in 	(Certain conditions: total <i>blended learning</i> 40%)	Students read and study the learning	Students discuss in groups about lecture	<ul style="list-style-type: none"> • PPT 	<ul style="list-style-type: none"> • Introduction to writing and presentation of the 	

1 credit = 50 minutes face-to-face meeting, 60 minutes structured study, 60 minutes independent study
Each meeting duration is 2 credits = 2×50 minutes

Indicators, Criteria, and Assessment Weights

1. Assessment weight for each Assessment

NO	Assessment	Weight (%)
1	Mid-Term Exam	25
2	Homework	20
3	Final Project	55
TOTAL		100

2. Assessment weight for Intended Learning Outcome

- CLO-1: 4,5%
- CLO-2: 4,5%
- CLO-3: 4,5%
- CLO-4: 31,5%
- CLO-5: 20%
- CLO-6: 20%
- CLO-7: 15%

Assessment Plan Table:

CLO	Assessment			
	Homework	Project and Presentation	Mid-Term Exam	Total Weight
1. An ability to understand mathematical terms in English (ILO-7: PI-1, PI-2, PI-3);	2%	-	2,5%	4,5%
2. An ability to recognize and use grammar well and correctly (ILO-7: PI-1, PI-2, PI-3);	2%	-	2,5%	4,5%
3. An ability to understand reading and reading comprehension well and correctly (ILO-7: PI-1, PI-2, PI-3);	2%	-	2,5%	4,5%
4. An ability to translate English text into Indonesian and vice versa properly and correctly (ILO-7: PI-2; PI-2, PI-3);	14%	-	17,5%	31,5%
5. An ability to write simple Academic Writing that complies with English rules (ILO-7: PI-1, PI-2, PI-3);	-	20%	-	20%
6. An ability to think critically, analytically, and innovatively, both individually and in groups (ILO-8: PI-1, PI-2, PI-3, PI-4);	-	20%	-	20%
7. An ability to argue logically and structured in small or large groups (ILO-8: PI-1, PI-2, PI-3, PI-4).	-	15%	-	15%
Total Weight	20%	55%	25%	100%

Matrix of CLO and ILO

CLO	ILO																															
	1			2			3			4			5				6					7			8				9			
	PI			PI			PI			PI			PI				PI					PI			PI				PI			
	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	4	1	2	3	4	5	1	2	3	1	2	3	4	1	2	3	4
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