

Faculty of **Education**

Faculty of Education aims to accelerate the educational transformation in Indonesia and beyond to meet the 21st century challenges. To pursue this agenda, we offer curricula that place an emphasis on multidisciplinary approaches, new technologies, reflective and research skills, and theory-practice integration. These programs are designed to produce high-quality transformative educators with a passion for lifelong learning.

MATHEMATICS EDUCATION PROGRAM

The Mathematics Education (ME) study program provides undergraduates to become high quality 21st century mathematics teachers. This program also equips students with profound mathematical knowledge and skills to enable them to teach mathematics at all levels of the basic and secondary education system.

Competencies to achieve:

- Interdisciplinary Thinking
- Skills in New Technologies in ICT
- Reflective and Research Skills
- Professionalism
- Transformation Skills
- Bilingual Communication Skills
- Sampoerna DNA (Leadership, Entrepreneurship, and Social Responsibility)

Career Pathways

- K12 Mathematics teachers
- Trainers in education and human resource development (HRD)
- Edupreneurs
- Module and learning media developers
- Researchers
- Writers in mathematics education
- Editors in mathematics education
- Technology specialists in education
- Mathematicians
- Financial banking
- Public relation officer



Curriculum | MATHEMATICS EDUCATION

SEMESTER I		
CODES	COURSE TITLE	CREDITS
GCOM1304	Composition I	3
GHUM1303	Word Religion	3
GHUM1208	Bahasa Indonesia	2
GMAT1511	Precalculus Algebra and Trigonometry	5
EDUC1301	Foundation of Teaching and Learning	3
EDUC1302	Educational Psychology	3
Total		19

SEMESTER II		
CODES	COURSE TITLE	CREDITS
GCOM1305	Composition II	3
GHUM1301	Pancasila	3
GMAT1310	Statistics	3
EDUC2303	Educational Research Methodology I	3
MTED1301	Teaching and Learning of Mathematics I	3
MTED1302	Differential Calculus	3
MTED1303	Planning, Assessment and Evaluation in Teaching Mathematics	3
Total		21

SEMESTER III		
CODES	COURSE TITLE	CREDITS
GCOM1306	Introduction to Speech Communication	3
GSCI1302	Introduction to Environmental Science	3
EDUC2305	Social Foundation of Education	3
ELTE2308	Classroom Language Strategies	3
MTED2304	Geometry	3
MTED2305	Teaching and Learning of Mathematics II	3
MTED2306	Integral Calculus	3
Total		21

SEMESTER IV		
CODES	COURSE TITLE	CREDITS
GHUM2304	Introduction to Literature	3
GSCI1308	General Biology I	3
GSCI1108L	General Biology I Lab	1
GSOC2303	General Psychology	3
GSOC2304	Social Problems	3
EDUC3307	Social Emotional Learning	3
MTED2307	Number Theory	3
MTED2308	Sequence & Series of Functions	3
Total		22

SEMESTER V		
CODES	COURSE TITLE	CREDITS
EDUC3306	Educational Technology	3
EDUC3308	Individual Differences	3
EDUC2304	Educational Research Methodology II	3
MTED3309	Mathematics Curriculum and Materials Development	3
MTED3311	Ordinary Differential Equations	3
MTED3312	Elementary Linear Algebra	3
MTED3314	Discrete Mathematics	3
Total		21

SEMESTER VI		
CODES	COURSE TITLE	CREDITS
GHUM1207	Kewarganegaraan	2
EDUC3315	Advanced Educational Technology	3
EDUC3309	Seminar	3
MTED3310	Problem Solving and Project-Based Learning in Mathematics	3
MTED3313	Linear Programming	3
MTED3315	Real Analysis	3
Elective-1	Elective Course 1	3
Total		20

SEMESTER VII		
CODES	COURSE TITLE	CREDITS
EDUC4311	Micro Teaching	3
EDUC4614	Capstone Project	6
MTED4316	History of Mathematics	3
Elective-2	Elective Course 2	3
Total		15

SEMESTER VIII		
CODES	COURSE TITLE	CREDITS
EDUC4312	Social Internship Program/ Kuliah Kerja Nyata (KKN)	3
EDUC4313	School Experience Program (SEP)/ Internship	3
Total		6

TOTAL CREDIT HOURS FOR DEGREE PROGRAM

145