Miami Dade College

Secondary Mathematics Education   **CIP (**1101313111**)**
Bachelor of Science | Code: S9250 | 120 credits
Effective Term: Fall Term 2024 (2247)

Upon completion of the Bachelor of Science Degree with a major in Early Childhood Education program, the student will be eligible to obtain a Florida Educator Certification in Pre-school (Birth to Age 4) and Pre-Kindergarten/ Primary (Age 3 to Grade 3) with endorsements in English for Speakers of Other Languages (ESOL), Reading, and Pre-Kindergarten Disabilities.

GENERAL EDUCATION REQUIREMENTS

1.COMMUNICATIONS (6.00 credits) Gordon rule assigned.
ENC 1101	English Composition 1	(3 credits)
ENC 1102	English Composition 2	(3 credits)

2.ORAL COMMUNICATION (3.00 credits) Gordon rule assigned.
LIT 2480	Issues in Literature & Culture	(3 credits)
SPC 1017	Fundamentals of Speech Communication	(3 credits)

3.HUMANITIES (6.00 credits) Gordon rule assigned.
Must take 3.0 credits from the following group.
ARC 2701	History of Architecture 1	(3 credits)
ARH 1000	Art Appreciation	(3 credits)
ARH 2050	Art History 1	(3 credits)
DAN 2100	Dance Appreciation	(3 credits)
HUM 1020	Humanities	(3 credits)
IND 1100	History of Interiors 1	(3 credits)
MUH 2111	Survey of Music History 1	(3 credits)
MUL 1010	Music Appreciation	(3 credits)
PHI 2604	Critical Thinking/Ethics	(3 credits)

---AND---
Must take 3.0 credits from the following group.
ARC 2702	History of Architecture 2	(3 credits)
ARH 2051	Art History 2	(3 credits)
ARH 2740	Cinema Appreciation	(3 credits)
DAN 2130	Dance History 1	(3 credits)
IND 1130	History of Interiors 2	(3 credits)
LIT 2120	A Survey of World Literature 2	(3 credits)
MUH 2112	Survey of Music History 2	(3 credits)
MUL 2380	Jazz and Popular Music in America	(3 credits)
PHI 2010	Introduction to Philosophy	(3 credits)
THE 2000	Theatre Appreciation	(3 credits)

4. SOCIAL SCIENCE (6.00 credits) Gordon rule assigned.
Must take 3.0 credits from the following group.
ANT 2410	Introduction to Cultural Anthropology	(3 credits)
CLP 1006	Psychology of Personal Effectiveness	(3 credits)
DEP 2000	Human Growth and Development	(3 credits)
ISS 1161	The Individual in Society	(3 credits)
PSY 2012	Introduction to Psychology	(3 credits)
SYG 2000	Introduction to Sociology	(3 credits)

---AND---
Must take 3.0 credits from the following group.
AMH 2010	History of the US to 1877	(3 credits)
AMH 2020	History of the US since 1877	(3 credits)
ECO 2013	Principles of Economics (Macro)	(3 credits)

ISS 1120	The Social Environment	(3 credits)
POS 2041	American Federal Government	(3 credits)
WOH 2012	History of World Civilization to 1789	(3 credits)
WOH 2022	History of World Civilization from 1789	(3 credits)

5.NATURAL SCIENCE (6.00 credits) Gordon rule assigned.

Must take 3.0 credits from the following group.

BOT 1010	Botany	(3 credits)
BSC 1005	General Education Biology	(3 credits)
BSC 1030	Social Issues in Biology	(3 credits)
BSC 1050	Biology & Environment	(3 credits)
BSC 1084	Functional Human Anatomy	(3 credits)
BSC 2010	Principles of Biology	(3 credits)
BSC 2020	Human Biology: Fundamentals of Anatomy and Physiology	(3 credits)
BSC 2085	Human Anatomy and Physiology 1	(3 credits)
BSC 2250	Natural History of South Florida	(3 credits)
HUN 1201	Essentials of Human Nutrition	(3 credits)
OCB 1010	Introduction to Marine Biology	(3 credits)
PCB 2033	Introduction to Ecology	(3 credits)
ZOO 1010	Zoology	(3 credits)

Note: The following course(s) are not allowed for credit in this area. All Labs

---AND---

Must take 3.0 credits from the following group.

AST 1002	Descriptive Astronomy	(3 credits)
CHM*		
ESC*		
GLY*		
MET*		
OCE*		
PHY*		
PSC 1121	General Education Physical Science	(3 credits)
PSC 1515	Energy in the Natural Environment	(3 credits)

Note: The following course(s) are not allowed for credit in this area. All Labs

6.MATHEMATICS (6.00 credits) Gordon rule assigned.

MAC 1105	College Algebra	(3 credits)
STA 2023	Statistical Methods	(3 credits)

Note: The following course(s) are not allowed for credit in this area. All Labs

7.GENERAL EDUCATION ELECTIVES (3.00 credits)

EEX 2000	Introduction to Special Education	(3 credits)

COMPUTER COMPETENCY REQUIREMENT

Test type(s) needed:
Computer Skills Placement (CSP)
---OR---

CGS 1060C	Introduction to Computer Technology & Application

COMMON PREREQUISITES (3.00 credits)

EDF 1005	Introduction to the Teaching Profession	(3 credits)

LOWER DIVISION REQUIREMENTS (18.00 credits)

MAC 1147	Pre-Calculus Algebra and Trigonometry	(5 credits)
MAC 2311	Calculus and Analytical Geometry 1	(5 credits)
MAC 2312	Calculus and Analytical Geometry 2	(4 credits)
MAC 2313	Calculus and Analytic Geometry 3	(4 credits)

LOWER DIVISION ELECTIVES (3.00 credits)
- Electives may include any appropriate transferrable (Credit Type 1 or 2) courses (Check with Advisor).

PROFESSIONAL EDUCATION CORE (18.00 credits)

EDF 4430	Measurement and Assessment in Education	(3 credits)
EDG 3321	General Teaching Skills	(3 credits)
EDG 3443	Classroom and Behavior Management	(3 credits)
EEX 3071	Teaching Exceptional and Diverse Populations in Inclusive Settings	(3 credits)
RED 3393	Differentiated Instruction in Content Reading	(3 credits)
TSL 4324C	ESOL Strategies for Content Area Teachers	(3 credits)

DISCIPLINE CONTENT (30.00 credits)

MAD 3107	Discrete Structures	(3 credits)
MAE 3951	Project-Based Learning in Mathematics Education	(2 credits)
MAE 4360	Methods of Teaching Mathematics	(3 credits)
MAE 4940	Advanced Topics in Mathematics Education Practicum	(3 credits)
MAP 2302	Introduction to Differential Equations	(3 credits)
MAS 3105	Linear Algebra	(3 credits)
MAS 3301	Algebraic Structures	(3 credits)
MAS 4203	Number Theory	(3 credits)
MHF 4404	History of Mathematics	(3 credits)
MTG 3214	Euclidean Geometry	(4 credits)

STUDENT TEACHING/INTERNSHIP (12.00 credits)

MAE 4942	Seminar in Mathematics Education	(3 credits)
MAE 4945	Internship in Mathematics Education	(9 credits)

Additional Information:
- Students should check their individualized Degree Audit Report to determine the specific graduation policies in effect for their program of study for the year and term they entered Miami Dade College. This outline includes current graduation requirements.