

Associate in Arts Degree (AA) - 60 credits

If you are planning to continue your education immediately after completing your Associate's degree, the AA degree is for you. Students choose between 3 tracks: Biotechnology, Chemical Technology, or Bioinformatics. This program provides the first two years of a four-year curriculum for students planning to major in Biotechnology, Biology, Chemistry, Bioinformatics or other Science related areas. Graduates are prepared for positions as Lab Technicians, Lab Assistants, Research Assistants, Media Prep and Manufacturing. Salary depends on the level of education and experience.

Course	Course Title	Credits	Pre-requisites	Co-requisites
GENERAL EDUCATION REQUIREMENTS (36 credits hours)				
ENC-1101	English Composition 1	3	None	None
ENC-1102	English Composition 2	3	ENC-1101	None
Oral Communications (3 credits)				
	3 credits selection from approved list	3		
Humanities (6 credits)				
	3 credits from group A	3		
	3 credits from group B	3		
Behavioral Science/Social Environment (6 credits)				
	3 credits from group A	3		
	3 credits from group B	3		
Natural Sciences				
BSC-2010	Principles of Biology 1	3	None	CHM-1045
CHM-1045	General Chemistry	3	None	MAC-1105
Mathematics				
MAC-1105	Algebra	3		None
STA-2023	Statistical Methods	3	MAC 1105	None
Elective				
CHM-1046	General Chem/Qualitative Analysis	3	CHM-1045	CHM-1046L
CORE COURSES (16 credits hours)				
BSC-2010L	Principles of Biology Lab 1	2	None	BSC-2010
CHM-1045L	General Chemistry Lab	2	None	CHM-1045 MAC-1105
CHM-1046L	General Chem/Qualitative Analysis Lab	2	CHM-1045L	CHM-1046
CHM-2210	Organic Chemistry 1	3	CHM-1046	CHM-2210L
CHM-2210L	Organic Chemistry 1 Lab	2	CHM-1046 CHM-1046L	CHM-2210
CHM-2211	Organic Chemistry 2	3	CHM-1046 CHM-1046L	CHM-2210
CHM-2211L	Organic Chemistry 2 Lab	2	CHM-2210	CHM-2211L

* For completion of the AA-Interdisciplinary Science-Biotechnology degree, students must choose coursework from only one of the following tracks:

TRACK 1 Biotechnology (8 credits hours chosen from the following:)				
BSC-2011	Principles of Biology 2	3	BSC-2010 BSC-2010L	BSC-2011L
BSC-2011L	Principles of Biology Lab 2	2	BSC-2010L	BSC-2011
BSC-2426	Biotech: Methods/Applications I	3	None	BSC-2426L
BSC-2426L	Biotech: Methods/Applications I Lab	2	None	BSC-2426
BSC-2427	Biotech: Methods/Applications II	3	BSC-2426 BSC-2426L	BSC-2427L
BSC-2427L	Biotech: Methods/Applications II Lab	2	BSC-2426 BSC-2426L	BSC-2427
PCB-2061	Genetics	3	BSC-2010 BSC-2010L	None
OR				
TRACK 2 Bioinformatics (8 credits hours chosen from the following:)				
CIS-2321	Systems Analysis and Design	4	CGS-1060	None
COP-2700	Databases Application Programming	4	None	None
CGS-1021	Scientific Computing	4		STA2023
OR				
TRACK 3 Chemical Technology (8 credits hours:)				
CHM-2110C	Survey of Quantitative Analysis	4	CHM-1046 CHM-1046L	None
CHS-2311C	Introduction to Chemical Instrumentation	4	CHM-2200 CHM2200L OR CHM-2211 CHM-2211L; AND CHM2110C	None

GENERAL EDUCATION REQUIREMENTS (36 credits). For additional advising information, students should refer to the MDC General Education advising information of their advisor.

1. Communications 6
2. Oral Communications 3
3. Humanities 6
4. Behavioral/Social Sciences 6
5. Natural Science 6
6. Mathematics 6
7. General Education Elective 3
8. **CGS 1060**-Introduction to Microcomputer Usage (4 credits). By the 16th college level credit (excluding ESL, ENS, EAP, and college preparatory courses), a student must take and pass the Computer Competency Test or by the 31st college level credit (excluding ESL, ENS, EAP, and college preparatory courses), a student must pass CGS1060, an equivalent continuing education or vocational credit course or retest with a passing score on the Computer Competency Test.

For more information about the Biotechnology Program please contact:

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