IOWA STATE UNIVERSITY

College of Liberal Arts and Sciences

Des Moines Area Community College Major: Bioinformatics and Computational Biology

Below are courses recommended for transfer students to take at their community college. This document is not intended to be an all-inclusive list, but a general guideline for students. It is recommended that you speak to an advisor at Iowa State at your earliest sign of wishing to transfer.

A maximum of 65 credits from a community college may be applied to your degree at Iowa State.

UNIVERSITY R	EQUIREMENTS	
The following courses are University requirement	s that must be met by all undergraduate students.	
Completion of the AA degree does not exe	mpt LAS students from these requirements.	
English Proficiency		
Course Name	DMACC Course Number	
Composition I	ENG 105	
Composition II	ENG 106	
Library and Internet Research	SDV 171	
U.S. Cultures and Communitie	es / International Perspectives	
Students in all majors must complete a three-credit of	course in U.S. Cultures and Communities, as well as a	
three-credit course in International Perspectives.	Below is a <u>partial</u> listing of courses that satisfy this	
requir	ement.	
U.S. Cultures and Communities	International Perspectives	
Course Options at DMACC	Course Options at DMACC	
PSY 261 Human Sexuality	ART 101 Art Appreciation	
SOC 115 Social Problems	MUS 100 Music Appreciation	
REL 140 Religions in America	POL 121 International Relations	
LIT 105 Children's Literature	REL 101 Survey of World Religions	
HIS 257 African American History	, ,	
The full listing of approved U.S. Cultures & Communities courses is at the following website:	The full listing of approved International Perspective courses is at the following website: https://go.iastate.edu/UCBQQB	
https://go.iastate.edu/QGEJCP		

COLLEGE OF LIBERAL ARTS AND SCIENCES GRADUATION REQUIREMENT FOR WORLD LANGUAGE

LAS students whose first language is English are required to meet college level proficiency in one world language. That requirement can be met by three or more years of high school study in a single world language **OR** by completing the second semester of a college-level world language course. The Department of World Languages and Cultures offers a test-out examination administered each semester. Two semesters of American Sign Language are recognized by Iowa State and will meet the world language requirement. **Students transferring with an AA degree are not exempt from this requirement.**

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LAS GENERAL EDU	JCATION REQUIREMENTS
Below is a partial list of course options students can take at DMACC. All approved courses can be found here:	
https://go.	<u>.iastate.edu/RB4J1S</u>
Arts and Humanities	ART 101 Art Appreciation
Minimum 12 credits	LIT 101 Intro to Literature
	LIT 105 Children's Literature
	HIS 110 West Civ.
	HIS 111 West Civ.
	HIS 151 U.S. History to 1877
	HIS 152 U.S. History since 1877
	PHI 105 Intro Ethics
	REL 101 Survey of World Religions
Math	MAT 110 Math for Liberal Arts
Minimum 3 credits	(Primarily for non-STEM fields)
i illillidiri o diculto	MAT 121 College Algebra
	MAT 129 Precalculus
	MAT 156 Statistics
	MAT 211 Calculus I
	MAT 217 Calculus II
	MAT 219 Calculus III
Natural Science	*BIO 112 General Biol. I w/lab
Minimum 8 credits	*BIO 113 General Biol. II w/lab
	BIO 151 Nutrition
	BIO 156 Human Bio w/lab
	BIO 164 Essentials Anatomy/Physiology
	*BIO 168 Anatomy & Phys. I w/lab
	*BIO 173 Anatomy & Phys. II w/lab
	BIO 186 Micro w/lab
	CHM 105 Survey of Chemistry
	CHM 122 Intro to General Chem
	CHM 132 Intro to Organic and BioChem
	CHM 165 & 175 General/Inorganic 1&2
	CHM 263 & 273 Org Chem 1&2
	PHY 106 Survey of Physics
	PHY 160 General Phys. I
	PHY 161 General Phys. II
	PHY 213 Classical Phys. I
	PHY 223 Classical Phys. II
	*Recommend all taken in series

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Social Sciences	ANT 125 Applications of Anthropology
Minimum 9 credits	ANT 150 Global Issues-Local Perspective
	CRJ 100 Intro to Criminal Justice
	CRJ 200 Criminology
	CRJ 201 Juvenile Delinquency
	ECN 120 Prin. of Macroeconomics
	ECN 130 Prin. of Microeconomics
	JOU 110 Intro to Mass Media
	JOU 115 Principles of Journalism
	JOU 167 Principles of Public Relations
	POL 111 American National Gov't
	PSY 102 Human and Work Relations
	PSY 111 Intro to Psychology
	PSY 121 Developmental Psych
	PSY 251 Social Psych
	SOC 110 Intro to Sociology
	SOC 115 Social Problems
	SPC 122 & 126 Interper & Sm Gr Com

Graduating with your Associate of Art degree? Students with 60 transferable credits and an AA degree will have met the general education requirements in the College of Liberal Arts and Sciences and will have achieved junior standing. (2.00 GPA Min.)

MAJOR REQUIREMENTS All four-year plans can be found here: https://go.iastate.edu/4EDCST Please note that many of your major requirements will be met during your time at Iowa State University. As you consider your transfer, we recommend connecting with an academic advisor at ISU early to be sure the courses you select at your community college fulfill degree requirements. The following courses should be considered as part of the coursework while earning an AA Degree at DMACC. MAT 211 **Bioinformatics and Computational MAT 217 Biology** MAT 219 CHM 165 *An AS degree will allow more of the Science and Math CHM 132 credits toward a Bioinformatics and Computational CHM 263 Biology major. General Education credits can be BIO 112 taken Junior and Senior years. & BIO 113 PHY 213