

B.A.S. in Computer Application Development: Course Checklist

Degree Program Summary of Credits Needed

Minnesota Transfer Curriculum (GenEd)

Metro State Upper Division Liberal Studies

Program Courses

Range

34-54

8 (These are FUSION credits)

58-78

Totals

120

Note 1: Total credits vary based on prior lower-division credits or associate degree composition. There are eight Transfer Curriculum courses (MATH) included in program credit requirements.

Note 2: If you have questions about your transfer credits, please contact Birt Abebe, Academic Advisor for the Computer Application Development program at Metropolitan State University. Call to make an appointment.

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Course Color Codes: Foundation course Required Course Program Elective Upper Division Elective

Notes: Filled colors in credit columns indicate courses that fulfill column requirement

Numbers entered in credit columns indicate required credits for those columns

A single course may not count in more than one column

Lower or Upper	Metro State Course Number	Transfer Equivalent Course Number	Course Name	Foundation courses	Additional Required Courses	Program Electives	Upper Division Electives
			Program Credits Needed (minimum of 58)	18	20	8	12
LD	MATH 115		College Algebra (applies to transfer curriculum)	4			
LD	MATH 215		Discrete Math (applies to transfer curriculum)	4			
LD	ICS 140		Programming Fundamentals	3			
LD	ICS 141		Programming with Objects	3			
LD	ICS 311		Database Systems and Programming		4		
LD	ICS 225		Web Design and Implementation	4			
LD	ICS 265		Programming in C				
LD	ICS 266		Programming in C++				
LD	ICS 268		Programming in Visual Basic				
LD	CFS 264		Computer and Operating System Fundamentals II				
LD	CFS 262		Computer and Operating System Fundamentals I				
LD	ICS 251		IT Work Skills – FUSION course		2		
UD	ICS 350I		IT Residency course (will take some credits each semester) – FUSION component		6 credits total		
UD	ICS 362		Computer Organization and Architecture				
UD	ICS 365		Comparative Programming Languages				
UD	ICS 370		Design and Implementation I		4		
UD	ICS 382		Application Security				
UD	ICS 425 or 325		Client/Server Architecture		4		
UD	ICS 462		Operating Systems				
UD	ICS 470		Software Engineering				
UD	Pending		Enterprise Integration Architecture				
UD	ICS 342		Mobile Application Development				
UD	ICS 440		Parallel and Distributed Algorithms				