



FUSION: I.T. Residency Component of the Computer Application Development program: *A bachelor's degree for I.T. students with a passion to work in the creative and dynamic world of computer app and web development!*

A proven pathway to rewarding I.T. employment

The FUSION I.T. residency is a component of the Computer Application Development (Capp) major at that unites your university education with applied experience. This happens through the 9-12 month, credit-earning "IT Residency." FUSION is designed for individuals who have earned two-year degrees in related programs OR who have completed equivalent university-level course work. FUSION comprises eight credits of course work in the bachelor's degree program: two credits for the required IT Work Skills (ICS 251) course and 2 credits each semester for working within the IT Residency (ICS 351). This excellent pathway to full time employment, an innovative, paid IT Residency, which transforms the last two years of college from added debt to positive cash flow!

Student benefits

What are the benefits of the FUSION IT residency component of your (Capp) degree?

- The program follows a proven pathway to full time employment in the field;
- The IT Work Skills (ICS 251) course is tailored to the real-world competencies of developers need and will give you an edge in career progression;
- You will have opportunities to network with employers and entrepreneurs in the rapidly evolving and creative workspace of application and web development;
- You will earn as you learn; generating positive cash flow while completing your degree.

Check out the FUSION website at <http://fusion-education.org/>

FUSION builds on your passion for this career!

Employer partners are looking for students who are highly motivated and interested in the increasingly creative and dynamic field of computer application and web development. Employers are looking for students who can answer “yes” to some of the following questions:

- Have you already developed your own apps or websites?
- Have you participated in extracurricular, volunteer work, or projects with others to create technology solutions?
- Did you find your previous programming and web development coursework to be engaging and did you challenge yourself to go beyond minimum expectations?
- Are you seriously interested in pursuing a career in the field?

What you will learn

The FUSION program blends technical competencies with essential workplace skills and experience that are in high demand by employers. This academic program is designed to provide flexibility for students who may have varying levels of prior technical coursework and allows for electives to be tailored to your work and career interests.

The FUSION I.T. Residency component (long-term residency)

FUSION is the *experiential learning component* of your bachelor’s degree in Computer Application Development in which students take 2 credits of the IT Work Skills preparation course first (ICS 251) and then 6 credits total of the IT residency course throughout the last 2 years of their bachelor’s degree. Students start with the IT Work Skills preparation course (ICS 251) followed by 9-12 months of the IT residency course working with one of our FUSION employer partners. Students are able to work up to **20 hours per week** during academic semesters and up to **40 hours per week during breaks and the summer**. All FUSION I.T. residents start at \$14.00 per hour and may progress up to \$18 per hour at the discretion of the employer, although increases are not guaranteed. You must meet minimum standards for employment and interview for positions with the FUSION companies who are hiring.

Check out the FUSION website at <http://fusion-education.org/>

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 (FUSION component)
 58-78

Totals **120**

Note: Total credits vary based on prior lower-division credits or associate degree composition. 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		2		
UD	ICS 351		IT Residency course (will take some credits each semester - for 9-12 months)		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 342		Mobile Application Development				
UD	ICS 440		Parallel and Distributed Algorithms				

Application Steps for FUSION I.T. Residency Students

For prospective students - from the two year colleges OR others with related course work

1. * Apply for admission to Metropolitan State University <http://www.metrostate.edu/admissions>
2. Declare major in Computer Application Development at Metropolitan State University
3. Review academic plan with Birtukan Abebe, Academic Advisor for Computer Application Development
4. Enroll in IT Work Skills course (ICS 251) at Metropolitan State University
5. Attend Professionalism Workshop to prepare for employer endorsement (same semester as ICS 251)
6. Apply to the FUSION IT residency component after attending the Professionalism Workshop

For undeclared students at Metropolitan State University

1. Declare your major in Computer Application Development at Metropolitan State University
2. Review academic plan questions with Birtukan Abebe, Advisor for Computer Application Development
3. Enroll in IT Work Skills course (ICS 251) at Metropolitan State University
4. Attend Professionalism Workshop to prepare for employer endorsement (same semester as ICS 251)
5. Apply to the FUSION IT residency component after attending the Professionalism Workshop

For declared program students at Metropolitan State University

1. Enroll in IT Work Skills course (ICS 251) at Metropolitan State University
2. If questions about academic course work, review plan Birtukan Abebe, CApp Advisor
3. Attend Professionalism Workshop to prepare for employer endorsement (same semester as ICS 251)
4. Apply to the FUSION IT residency component after attending the Professionalism Workshop

Academic Advising questions? Contact Birtukan Abebe at Birtukan.Abebe@metrostate.edu

* Academic Program Admissions – Metropolitan State University

Students should apply to the Computer Application Development academic program through established admission processes at Metropolitan State University. Application to the university should be pursued before application to the IT Residency component of the Computer Application Development B.A.S degree program. Apply today! <http://www.metrostate.edu/admissions>

Employer Endorsement Process:

1. While students are enrolled in the (ICS 251) Work Skills course, Advance IT Minnesota will hold a professionalism workshop for FUSION applicants to attend. This workshop will teach students how to write a professional cover letter and IT resume as well as develop the technical interview skills which are necessary to help students prepare for the FUSION residency component.
2. Once students have written a professional cover letter and resume as well as practiced a technical interview, they will fill out an online FUSION component application. The Director of FUSION will review all FUSION residency applications for minimum qualifications and will notify applicants if his/her application has been approved to move on to the employer evaluation phase.
3. The Director will work with three employer evaluators who will review each application and other artifacts such as the cover letter and resume. Based on a rating scale, employer evaluators will rate applicants on work readiness dimensions and assign an overall recommendation level. Acceptance is based on cumulative ratings and recommendations from three employer evaluators. Applicants will receive an anonymous summary of reviewer ratings and comments for career development purposes.
4. Once students are notified of the employer endorsement decision they must sign a commitment letter within one-week of acceptance. If not endorsed, applicants may re-apply for the FUSION residency after addressing concerns indicated by the employer evaluators.

FUSION I.T. Residency Hiring Process:

Once endorsed by the employer evaluators, students will be eligible to participate in a Residency Hiring Event, which will take place near the beginning of each semester including summer session (three times per year). These events allow both employers and students to participate in multiple interviews at a single location over a defined time frame. Students and employers then submit their ranked choices based on the perceived match of career interests, skills and other factors with the available positions. The FUSION Director will then work with employers to maximize the number of compatible hires. If a student is not selected through this process, he or she will receive feedback on any potential issues that may have impacted employer hiring decisions. A limited number of alternative positions may be available to provide experience until the next selection event.

For more information, contact:

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