



**Transfer Guide for  
JACKSON COMMUNITY COLLEGE  
Bachelor of Science Degree  
CHEMISTRY EDUCATION**

**Home Page**

<http://www.ferris.edu/htmls/colleges/educatio/index.cfm>

**Contact**

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**1-800-4-FERRIS**  
OR  
231-591-3646

*This is a guide for students who plan to transfer to Ferris State University. This guide is not intended to be a contract with Ferris. The information on this guide is subject to change; students should contact Ferris to keep informed of changes (see "contact" above). Final responsibility for verifying all transfer information lies with the student.*

**ADMISSION REQUIREMENTS FOR TRANSFER STUDENTS**

Admission to chemistry education requires a minimum 2.00 college grade point average and can be entered any semester. If a student has completed college intermediate algebra and the first two semester of college English, successfully completing the State Basic Skills Test before entering the program would be advisable [www.mttc.nesinc.com](http://www.mttc.nesinc.com)

For assistance with the admission process, contact your transfer counselor at the community college or the transfer admissions officer at Ferris State University, Shari Chamberlain, at 1-800-4-FERRIS, [chambers@ferris.edu](mailto:chambers@ferris.edu).

**APPLICATION DEADLINE**

Transfer students must be admitted (apply & be accepted) 21 days prior to the first day of the semester they plan to attend.

**TRANSFER PLAN**

Transfer of credit is awarded on a course-by-course basis.

Transferable courses are those with grades of "C" (2.00 on a 4.00 scale) or better.

The following is a list of courses students must complete for the chemistry major. However, secondary education requires a minor as well (an additional 20-27 credits). Please contact the educational counselor for assistance with minor choices. Community college equivalents are listed below and may be taken prior to transferring to Ferris. Blank spaces in the community college column indicate there are no course equivalents available.

**FERRIS STATE UNIVERSITY/JACKSON COMMUNITY COLLEGE  
TRANSFER PLAN  
CHEMISTRY EDUCATION**

NAME: \_\_\_\_\_ SS#: \_\_\_\_\_

| REQUIRED   |     | COMMUNICATION COMPETENCE – 12 Credit Hours Required  | JCC               | FSU S.H. | GRADE |
|--|-----|--|-------------------|----------|-------|
| ENGL   | 150 | English 1 -Must obtain a minimum of B grade for English teaching major/minor   | ENG 131           | 3        |       |
| ENGL   | 250 | English 2 -Must obtain a minimum of B grade for English teaching major/minor   | ENG 132           | 3        |       |
| COMM   |     | Inter. Comm. (COMM 105) or Fund. of Public Speaking (COMM 121)<br>Program Specific Requirement   | COM 231 OR<br>240 | 3        |       |
| ENGL   | 321 | Advanced Composition   |                   | 3        |       |
| <b>SCIENTIFIC UNDERSTANDING - 7-8 Credit Hours Required:</b> Two courses from the following subject areas (one must be a lab course):<br>ASTR, BIOL, CHEM, GEOG 111, GEOG 121, GEOL, PHSC, PHYS.   |     |  |                   |          |       |
|  |     | Chemistry Courses Will Complete This Area  |                   |          |       |
| <b>QUANTITATIVE SKILLS - Proficiency in MATH 115 or higher:</b> This requirement can be completed by <b>ONE</b> of the following options:<br>1. Pass MATH 115 or higher. 2. Pass course proficiency exam in MATH 115 or higher.<br>3. ACT Math subtest score of 24 or higher.  |     |  |                   |          |       |
|  |     |  | MTH 131           |          |       |
| <b>CULTURAL ENRICHMENT - 9 Credit Hours Required:</b> Three courses from the following subject areas: Art, History, Humanities, Philosophy (EXCEPT LOGIC), Literature, Music, Drama, and Foreign Language<br>These courses must include:<br>1. At least one course at the 200 level or higher.<br>3. No more than 5 credit hours in music activities courses, or theater activities courses, or art studio courses may be used to complete this requirement. |     |  |                   |          |       |
|  |     | <a href="http://www.ferris.edu/htmls/academics/gened/cultcourses.html">http://www.ferris.edu/htmls/academics/gened/cultcourses.html</a>  |                   |          |       |
|  |     | <a href="http://www.ferris.edu/admissions/Transfer/WebPages/homepage1.cfm?INST_CODE=001378">http://www.ferris.edu/admissions/Transfer/WebPages/homepage1.cfm?INST_CODE=001378</a>  |                   |          |       |
| <b>SOCIAL AWARENESS - 9 Credit Hours Required:</b> Three courses from the following subject areas: Anthropology, Economics, Political Science, or Sociology<br>These courses must include:<br>1. Courses in at least two different subject areas. 2. One Social Awareness Foundations Course.<br>3. One course dealing with issues of race/ethnicity and/or gender. 4. <b>One course at the 200 level or higher.</b>   |     |  |                   |          |       |
|  |     | <a href="http://www.ferris.edu/htmls/academics/gened/soccourses.html">http://www.ferris.edu/htmls/academics/gened/soccourses.html</a>  |                   |          |       |
|  |     | <a href="http://www.ferris.edu/admissions/Transfer/WebPages/homepage1.cfm?INST_CODE=001378">http://www.ferris.edu/admissions/Transfer/WebPages/homepage1.cfm?INST_CODE=001378</a>  |                   |          |       |
| <b>GLOBAL CONSCIOUSNESS:</b> Each student must complete one course from the Global Consciousness group, which may also count toward fulfilling the Cultural Enrichment or Social Awareness requirement, respectively. Global Consciousness courses deal specifically with contemporary cultures, languages, and societies outside North America.   |     |  |                   |          |       |
|  |     | <a href="http://www.ferris.edu/htmls/academics/gened/globcourses.html">http://www.ferris.edu/htmls/academics/gened/globcourses.html</a><br><a href="http://www.ferris.edu/admissions/Transfer/WebPages/homepage1.cfm?INST_CODE=001378">http://www.ferris.edu/admissions/Transfer/WebPages/homepage1.cfm?INST_CODE=001378</a> |                   |          |       |
| <b>RACE/ETHNICITY/GENDER:</b> Each student must choose one.  |     |  |                   |          |       |
|  |     | <a href="http://www.ferris.edu/htmls/academics/gened/regcourses.html">http://www.ferris.edu/htmls/academics/gened/regcourses.html</a><br><a href="http://www.ferris.edu/admissions/Transfer/WebPages/homepage1.cfm?INST_CODE=001378">http://www.ferris.edu/admissions/Transfer/WebPages/homepage1.cfm?INST_CODE=001378</a>   |                   |          |       |

Note: Though faculty advisors are responsible for advising students regarding degree requirements, it is the student who is ultimately responsible for choosing the correct courses and for following the correct program.

**The MACRAO policy may have little or no effect.** BECAUSE MINOR COURSES CAN ALSO FULFILL GENERAL EDUCATION REQUIREMENTS, WHERE APPLICABLE, THE MACRAO MAY NOT HASTEN THE COMPLETION OF THIS PROGRAM.

**FERRIS STATE UNIVERSITY/JACKSON COMMUNITY COLLEGE  
TRANSFER PLAN  
CHEMISTRY TEACHING MAJOR  
48 Semester Hours**

You can **NOT** have a Chemistry teaching minor with this teaching major.

| REQUIRED  |     | COURSE TITLE                       | JCC     | FSU S.H. | GRADE |
|---|-----|------------------------------------|---------|----------|-------|
| CHEM  | 121 | General Chemistry 1                | CEM 141 | 5        |       |
| CHEM  | 122 | General Chemistry 2                | CEM 142 | 5        |       |
| CHEM  | 321 | Organic Chemistry 1                | CEM 241 | 5        |       |
| CHEM  | 322 | Organic Chemistry 2                | CEM 242 | 5        |       |
| CHEM  | 231 | Quantitative Analysis              |         | 4        |       |
| CHEM  | 317 | Instrumental Analysis              |         | 3        |       |
| CHEM  | 451 | Introduction to Physical Chemistry |         | 4        |       |
| CHEM  | 364 | Biochemistry                       |         | 4        |       |
|   |     | TOTAL                              |         | 35       |       |
|   |     |                                    |         |          |       |
| MATH  | 220 | Analytical Geometry and Calculus 1 | MTH 151 | 5        |       |
| PHYS  | 211 | Introductory Physics 1             | PHY 231 | 4        |       |
| PHYS  | 212 | Introductory Physics 2             | PHY 232 | 4        |       |
| <b>NOTE: A 2.50 GPA IS REQUIRED IN THE MAJOR/MINOR. A MINIMUM OF A "C" GRADE IS REQUIRED FOR ALL COURSES.</b> |     |                                    |         |          |       |

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**IN ADDITION TO AN EDUCATION MAJOR, AN EDUCATION MINOR IS REQUIRED FOR THE COMPLETION OF THE DEGREE. IF YOU HAVE QUESTIONS, PLEASE CONTACT THE EDUCATIONAL COUNSELOR FOR ASSISTANCE. EMAIL: [CLINEMA@FERRIS.EDU](mailto:CLINEMA@FERRIS.EDU) OR TELEPHONE (231) 591-3646 OR 1-800-4-FERRIS EXTENSION 3646.**

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**FERRIS STATE UNIVERSITY/JACKSON COMMUNITY COLLEGE  
COLLEGE OF EDUCATION AND HUMAN SERVICES  
SECONDARY EDUCATION/PROFESSIONAL SEQUENCE**

Admission to the **Technical** curriculum requires the completion of one of the following:

1. An A.A.S. Degree with at least 40 semester hours in the occupational major and a minimum grade point average of 2.50 in the major courses **OR**
2. Occupational competence documented by the Michigan Occupational Competency Assessment Center (MOCAC)

**NOTE: STUDENTS MUST OBTAIN THE APPROPRIATE GPA FOR THEIR MAJOR/MINOR AS ESTABLISHED BY EACH DEPARTMENT. A 2.75 GPA IS REQUIRED IN THE PROFESSIONAL EDUCATION COURSE SEQUENCE. A 2.50 CUMULATIVE GPA IS ALSO REQUIRED BEFORE STUDENT TEACHING.**

**FIELD EXPERIENCE REQUIREMENT: (for vocational majors only: Technical, Business, Marketing)** Two years of wage earning occupational work experience (within the last six (6) years) required. **Contact the Vocational Authorization Officer immediately.**

\*Possible options are available if you have at least one-year of experience (check with Vocational Authorization Officer).

|   |   |  |             |            |              |
|---|---|--|-------------|------------|--------------|
| *EDUC   | 391   | Cooperative Work Internship (4 - 8 S.H.)   | 8           |            |              |
| <b>REQUIRED</b>   | <b>PROFESSIONAL EDUCATION COURSES (40-44 Credit Hours Required)</b> |  | <b>S.H.</b> | <b>JCC</b> | <b>GRADE</b> |
| <b>Level I Courses</b>  |   |  |             |            |              |
| EDUC  | 101   | Introduction to the Profession of Teaching   | 1           |            |              |
| EDUC  | 251   | Life Span Human Growth & Development   | 3           | PSY 252    |              |
| EDUC  | 289   | Principles of Teaching & Learning  | 3           |            |              |
| <i>NOTE: Prior to enrolling in any Level II or Level III course, all students in teacher education programs must pass all sections of the state-mandated Basic Skills Test and complete a level II application.</i> |   |  |             |            |              |
| <b>Level II Courses</b>   |   |  |             |            |              |
| EDUC  | 303   | School, Work, and Society  | 3           | EDU 221    |              |
| EDUC  | 338   | Secondary General Methods I (Application Required)   | 4           |            |              |
| EDUC  | 415   | Teaching Strategies for Special Education and Diverse Populations (prerequisite: EDUC 338) | 3           |            |              |
| EDUC  | 438   | Secondary General Methods II (Application Required)  | 5           |            |              |
| EDUC  | 443   | Teaching Reading/Secondary Areas   | 3           |            |              |
| <i>The next course is required for vocational majors only ( Technical, Business, Marketing)</i>   |   |  |             |            |              |
| EDUC  | 400   | Foundations in Career and Technical Education  | 3           |            |              |
| <b>Level III Courses</b>  |   |  |             |            |              |
| EDUC  | 491   | Secondary Directed Teaching (Application Required)   | 6-12        |            |              |
| EDUC  | 499   | Professional Seminar   | 2           |            |              |
|   |   | <b>TOTAL</b>   | 33-39       |            |              |

Students are strongly encouraged to meet with their advisor to discuss the appropriate sequence of courses for their program and any conflicts with other courses. No Grade Lower than a C.

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