DAYSTAR PROGRAM CHECKLIST
SECONDARY
CHEMISTRY CERTIFICATION (Grades 9-12)

Education department

GENERAL EDUCATION
The general education component is to be completed according to Columbia College degree requirements. (Please refer to your entrance year catalog for specific degree requirements.)

LIBERAL ARTS AND SCIENCE DEGREE
Secondary Education majors may choose from the following recommended degree areas.

- BA – American Studies
- BA – Art
- BS – Art
- BA – Biology
- BS – Biology
- BA – Business Administration
- BS – Business Administration

Students must complete the degree requirements as set forth by Columbia College. Hours required for completion will vary depending on area chosen. (Please refer to your entrance year catalog for specific degree requirements.)

CONTENT AREA COURSEWORK FOR CHEMISTRY

<table>
<thead>
<tr>
<th>Grade</th>
<th>Course #</th>
<th>Course Title</th>
<th>Cr Hrs</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>HIST 303</td>
<td>History and Philosophy of Modern Science</td>
<td>3</td>
</tr>
</tbody>
</table>

Twenty (20) hours in Chemistry coursework from the following areas:

- CHEM 322 Inorganic Chemistry (Inorganic Chemistry) 3
- CHEM 306 Analytical Chemistry I (Analytical Chemistry) 3
- CHEM 310 Organic Chemistry I (Organic Chemistry) 3
- CHEM 310L Organic Chemistry Laboratory 2
- CHEM 401 Introduction to Physical Chemistry/Chemical Physics (Physical Chemistry) 3
- CHEM 420 Biochemistry (Biochemistry) 3
- CHEM 420L Biochemistry Laboratory 2
- Electives: Chemistry Electives to complete the 20-hr minimum 0-2

Ten (10) hours of additional Science coursework from the following areas:

- PHYS 111 College Physics (Physics) 3
- BIOL 110 Principles of Biology I (Biology) 3
- GEOL 110 Introduction to Physical Geology (Earth Science) 3
- ENVS 115 Introduction to Environmental Science (Environmental Science) 3
- Electives: Science Electives to complete the 10-hr minimum 0-2

[The College reserves the right to alter at any time requirements to meet state certification regulations.]
### Professional Education Coursework

<table>
<thead>
<tr>
<th>Grade</th>
<th>Course #</th>
<th>Course Title</th>
<th>Cr Hrs</th>
<th>Field Experience (observation hrs) included</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>SOCI 270</td>
<td>Minority Cultures and Relations</td>
<td>3</td>
<td>none</td>
</tr>
<tr>
<td></td>
<td>EDUC 100</td>
<td>Introduction to Education (formerly EDUC 102/103)</td>
<td>3</td>
<td>15 hrs</td>
</tr>
<tr>
<td></td>
<td>EDUC 198</td>
<td>Field Experience I*</td>
<td>1</td>
<td>15 hrs</td>
</tr>
<tr>
<td></td>
<td>EDUC 200</td>
<td>Law, Ethics, and Education</td>
<td>3</td>
<td>none</td>
</tr>
<tr>
<td></td>
<td>EDUC 230</td>
<td>Educational Psychology</td>
<td>3</td>
<td>none</td>
</tr>
<tr>
<td></td>
<td>EDUC 298</td>
<td>Field Experience II*</td>
<td>1</td>
<td>15 hrs</td>
</tr>
<tr>
<td></td>
<td>EDUC 300</td>
<td>Techniques of Teaching</td>
<td>3</td>
<td>15 hrs</td>
</tr>
</tbody>
</table>

**Admission to the Teacher Certification Program (See Teacher Certification Program checklist)**

<table>
<thead>
<tr>
<th>Grade</th>
<th>Course #</th>
<th>Course Title</th>
<th>Cr Hrs</th>
<th>Field Experience (observation hrs) included</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>EDUC 338</td>
<td>Teaching Reading in the Content Areas &amp; Secondary Schools</td>
<td>3</td>
<td>15 hrs</td>
</tr>
<tr>
<td></td>
<td>EDUC 365</td>
<td>Teaching Middle and Secondary Science</td>
<td>3</td>
<td>15 hrs</td>
</tr>
<tr>
<td></td>
<td>EDUC 398</td>
<td>DAYASTAR Field Experience III</td>
<td>1</td>
<td>35 hrs</td>
</tr>
<tr>
<td></td>
<td>EDUC 525</td>
<td>Educating Exceptional Individuals</td>
<td>3</td>
<td>none</td>
</tr>
<tr>
<td></td>
<td>EDUC 550</td>
<td>Human Development</td>
<td>3</td>
<td>none</td>
</tr>
<tr>
<td></td>
<td>EDUC 563</td>
<td>Management of the Classroom Environment</td>
<td>3</td>
<td>15 hrs</td>
</tr>
<tr>
<td></td>
<td>EDUC 580</td>
<td>Methods of Effective Academic Evaluation</td>
<td>3</td>
<td>none</td>
</tr>
<tr>
<td></td>
<td>EDUC 400</td>
<td>Senior Seminar</td>
<td>3</td>
<td>none</td>
</tr>
</tbody>
</table>

**Approval for Student Teaching (See Student Teaching Checklist)**

<table>
<thead>
<tr>
<th>Grade</th>
<th>Course #</th>
<th>Course Title</th>
<th>Cr Hrs</th>
<th>Field Experience (observation hrs) included</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>EDUC 698</td>
<td>Graduate Student Teaching</td>
<td>9</td>
<td>16 weeks</td>
</tr>
</tbody>
</table>

**Total Credit Hours (undergraduate)**: 27

**Approval for DESE certification recommendation (See DESE Certification Checklist)**

**Continue with Remaining MAT Degree coursework; Submit Declaration of Candidacy for Degree before last semester**

<table>
<thead>
<tr>
<th>Grade</th>
<th>Course #</th>
<th>Course Title</th>
<th>Cr Hrs</th>
<th>Field Experience (observation hrs) included</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>EDUC 500</td>
<td>Research Design</td>
<td>3</td>
<td>none</td>
</tr>
<tr>
<td></td>
<td>EDUC 504</td>
<td>Curriculum Design and Evaluation</td>
<td>3</td>
<td>none</td>
</tr>
<tr>
<td></td>
<td>EDUC 508</td>
<td>Integrative Project</td>
<td>3</td>
<td>none</td>
</tr>
<tr>
<td></td>
<td>Elective:</td>
<td>From &quot;Curriculum &amp; Instruction&quot; section of MAT checklist</td>
<td>3</td>
<td>none</td>
</tr>
<tr>
<td></td>
<td>EDUC 582</td>
<td>Evaluation of Teaching Effectiveness</td>
<td>3</td>
<td>none</td>
</tr>
</tbody>
</table>

**Total hours toward MAT**: 36

**NOTE**: To take any course listed with a field experience component, student must submit application forms by the deadline (semester BEFORE desired enrollment). See Education Office for deadline information.

**THREE YEAR BACCALAUREATE PROGRAM**: 125 – 140 hrs Total

**FOURTH YEAR MASTER OF ARTS IN TEACHING**: 36 hrs

One academic year and 2 summer sessions; Graduate degree compiled of graduate-level coursework taken toward certification requirements (see checklist above) as well as hours required for MAT only (see list below).

**OTHER REQUIREMENTS**

- Admission to the Teacher Education Program; entrance must be gained prior to MAT

[The College reserves the right to alter at any time requirements to meet state certification regulations.]
- Successful completion/passing of appropriate Praxis II exam
- Successful completion of program certification portfolio (EDUC 400) and exit interview

**Retention Criteria:**
- Complete at least 6 hours of professional education each year
- Complete Field Experiences and receive favorable evaluations from cooperating teachers and faculty supervisors
- Maintain a cumulative GPA of 2.75 or above after acceptance to the program
- Maintain a cumulative GPA of 3.0 or above in professional education courses and content area courses

*This is not an undergraduate degree checklist
Rev. 8/2015

**THE DAYSTAR PROGRAM**

**Four Year Certification and Master’s Degree Sequence: Secondary Certification**

**Complete High School**

**Summer One**

[EDUC 100 (3 hrs); EDUC 200 (3 hrs); SOCI 270 (3 hrs)]

**9 hrs**

**Year One**

[EDUC 198 (1 hr); hours toward certification and major]

**30-36 hrs**

**Summer Two**

[EDUC 230 (3 hrs); EDUC 300 (3 hrs)]

**6 hrs**

**Year Two**

[EDUC 298 (1 hr); hours toward certification and major]

**30-36 hrs**

**Summer Three**

[EDUC 338 (3 hrs); hours toward certification or major]

**6 hrs**

**Year Three**

[EDUC 365 (3 hrs); EDUC 398 (1 hr); hours toward certification or major] 30-36 hrs

**Bachelor’s Degree Awarded (Approx. 138 hrs)**

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**Must be admitted to the MAT-Post Baccalaureate Program to be eligible for Summer Four course enrollment.**

**Summer Four**

[EDUC 500 (3 hrs); EDUC 525 (3 hrs); EDUC 563 (3 hrs)]

**9 hrs**

**Year Four**

[1st 8 wk Session EDUC “C & I” elective (3 hrs); EDUC 400 (3 hrs)]
[2nd 8 wk Session EDUC 550 (3 hrs); EDUC 580 (3 hrs)]
[3rd 8 wk Sessions EDUC 698 (9 hrs) (this is a 16-week course)]
[4th 8 wk Session – continuation of student teaching] 18 hrs (graduate hours)

**Eligible for DESE Certification**

**Summer Five**

[EDUC 504 (3 hrs); EDUC 508 (3 hrs); EDUC 582 (3 hrs)]

**9 hrs**

**MAT Awarded (36 hrs)**

Daystar Program Completed

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