# Transfer Plan for Chemistry and Biochemistry

Bachelor of Science (B.S.) at WTAMU; A.A or A.S. at Frank Phillips College

<table>
<thead>
<tr>
<th>NOTES</th>
<th>CORE CURRICULUM REQUIREMENTS*</th>
<th>HRS</th>
<th>CORE #</th>
<th>MAJOR CORE REQUIREMENTS**</th>
<th>HRS</th>
</tr>
</thead>
<tbody>
<tr>
<td>a</td>
<td>ENGL 1301 - Composition I</td>
<td>3</td>
<td>10</td>
<td>CHEM 1411</td>
<td>4</td>
</tr>
<tr>
<td>b</td>
<td>ENGL 1302 - Composition II</td>
<td>3</td>
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<td>CHEM 1412</td>
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<tr>
<td>c</td>
<td>SPCH 1311, 1318, or 1321</td>
<td>3</td>
<td>11</td>
<td>CHEM 2523</td>
<td>4</td>
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<tr>
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<td>Mathematics</td>
<td>3</td>
<td>20</td>
<td>CHEM 2525</td>
<td>4</td>
</tr>
<tr>
<td>e</td>
<td>Natural Science</td>
<td>8</td>
<td>30</td>
<td>MATH 1316</td>
<td>3</td>
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<td>f</td>
<td>Humanities</td>
<td>6</td>
<td>40</td>
<td>PHYS 2425</td>
<td>4</td>
</tr>
<tr>
<td>g</td>
<td>Visual and Performing Arts</td>
<td>3</td>
<td>50</td>
<td>PHYS 2426</td>
<td>4</td>
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<td>h</td>
<td>HIST 1301, 1302 - History of U.S. I and II</td>
<td>6</td>
<td>60</td>
<td>Additional Courses for the A.A. or A.S. Degree</td>
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<td>i</td>
<td>GOVT 2305, 2306 - Government of U.S., Texas</td>
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<td>Social and Behavioral Sciences</td>
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<td>3</td>
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Please note that not all courses may be offered each semester at the community college. Check with your counselor for availability of courses, as well as the option to pursue an associate's degree.

**EXPLANATION OF NOTES**

* West Texas A&M University's requirements include a 42-hour Texas core curriculum, whereas Frank Phillips College maintains a 47-hour core curriculum with options for an Associate in Arts or an Associate in Science general degree. If a student completes a component of the core at one Texas institution, that block of courses will be substituted for WTAMU's same core component(s). Furthermore, core curriculum requirement courses may also be fulfilled by approved courses at WTAMU.

** Additional Program Foundation courses are required. These may be completed at Frank Phillips College or WTAMU.

- a. Six hours of lower-level English composition.
- b. Courses may include: SPCH 1311, 1318 or 1321.
- c. Courses for Mathematics may include: MATH 1314, 1316, 1324, 1325, 1332, 2312, 2413, 2414 OR 2315. **NOTE: FPC requires an additional math course for the A.S. degree.**
- d. Courses for Natural Sciences, with labs, may include: ANTH 2401; BIOL 1308, 1406, 1407, 1411, 1413, 2401, 2402, 2421; CHEM 1305, 1405, 1407, 1411, 1412, 2423, 2425; GEOL 1301; PHYS 1305, 1401, 1402, 1404, 1415, 1417, 2425 or 2426.
- e. Courses for Mathematics may include: ANTH 2346, 2351; ENGL 2331, 2332, 2333, 2321, 2326, or 2341; HIST 2311; PHIL 1301 or 2306. **NOTE: FPC requires six hours of Humanities for the A.A. or A.S. degree, at least three of which must be from a literature course.**
- f. Courses for Visual and Performing (Fine) Arts may include: ARTS 1303, 1304, HUMA 1315 or MUSI 1306.
- g. Satisfies the History core requirement (and listed under the Social and Behavioral Sciences component at PFC.)
- h. Satisfies the Government core requirement (and listed under the Social and Behavioral Sciences component at PFC.)
- i. Courses for Social and Behavioral Sciences may include: ECON 2301, GEOG 1303, PSYC 2301, 2314, SOCI 1301 or 1306.
- j. Institutionally Designated Option courses may include: any PHED course 1101 or above, PSYC 1200 or EDUC 1200. **NOTE: FPC requires three hours: one of the PHED courses and two hours of either PSYC 1200 or EDUC 1200.**

This information is for reference and planning purposes. This is not an official degree plan.
Bachelor of Science-Chemistry and Biochemistry
2011-2012 Catalog

GENERAL DEGREE REQUIREMENTS

- A minimum of 120 semester hours of applicable college credit.
- At least 39 hours of advanced work (courses at the 3000 or 4000 level) for which tuition is paid must be earned at WTAMU; 30 of the 39 hours must be the final hours counted toward a degree. Continuing Education courses do not count in the 39 hours of advanced work at WTAMU.
- Completion of West Texas A&M University core curriculum.
- Achievement of at least a "C" (2.0) average in all course work offered toward a degree, at least a "C" average in major requirements listed in degree plans and at least a "C" average in all hours in the student's major subject.
- Credits may be transferred to West Texas A&M University to be counted toward a degree in accordance with the degree program requirements as outlined in the catalog. No grade of "D" in the program's major requirements or major subject can transfer for credit in any degree program offered at West Texas A&M University.

CORE REQUIREMENTS FOR CHEMISTRY AND BIOCHEMISTRY MAJORS

Professional Chemistry Requirements

- CHEM 1411, 1412, 2523, 2525, 3511, 3521, 3522, 4411, 4323, 4223L, 4431, 4397.
- MATH 1316 or 2412; 2413, 2414, 3340.
- PHYS 2425, 2426 and two hours of 3095.
- MPS 4370.
- Additional advanced hours to provide a minimum of 36 hours selected from chemistry, physics, or mathematics.
- Additional hours to meet the minimum University requirement for a degree.

General Chemistry Requirements

- CHEM 1411, 1412, 2523, 2525, 3511; three courses from 3521, 3522, 4411, 4323, 4222L; 4324 and 4224L; 4431.
- MATH 1316 or 2412; 2413, 2414, 3340.
- PHYS 2425, 2426 and two hours of 3095.
- MPS 4370.
- Additional advanced hours to provide a minimum of 36 hours selected from chemistry, physics, mathematics, biology, computer science, environmental science or geology.
- Additional hours to meet the minimum University requirement for a degree.

Biochemistry Requirements

- CHEM 1411, 1412, 2523, 2525, 3511, 4323, 4223L, 4324, 4224L.
- BIOL 1406 or 1413, 1407 or 1414, 2572, 3301, 3402 and one course from 3440 or 4375.
- MATH 1316 or 2412; 2413, 2414, 3340.
- PHYS 1401 or 2425, 1402 or 2426.
- MPS 4370.
- MATH 2414 is recommended.
- Additional advanced hours to provide a minimum of 36 hours selected from chemistry, physics, mathematics, biology, computer science, environmental science or geology.
- Additional hours to meet the minimum University requirement for a degree.