Page 9
The following text was revised:

Last day to register/pay for Summer I ...............May 30

The above text should now read as follows (effective 8/13):

Last day to register for Summer I ......................May 30
Last day to pay for Summer 2014 classes (after this date, payment is due the day of registration) May 30

The following text was revised:

Last day to register/pay for Summer II .................July 9

The above text should now read as follows (effective 8/13):

Last day to register for Summer II ......................July 9

Page 43
The following text was revised:

4. Proof of English proficiency, if appropriate, which can be assessed at the time of enrollment or by submitting one of the following:

• Test of English as a Foreign Language (TOEFL) score of 530 or higher on the paper version of TOEFL or 197 or higher on the computerized version or 71 on the internet-based version. Test scores are valid for 3 years.

• Official transcripts from an accredited U.S. college or university showing successful completion of coursework including a college-level writing course (not ESOL).

• Official records from a foreign high school or higher education institution where English is the primary language of instruction may indicate English proficiency.

• Completion of a LSCS approved intensive English language program.

• Test of English for International Communication (TOEIC) score of 700 or higher. Test scores are valid for 3 years.

• International English Language Testing System (IELTS) score of 7 or higher. Test scores are valid for 2 years.

• Individuals not proficient in English upon arrival will be required to be assessed for placement in the intensive English program.

The above text should now read as follows (effective 8/13):

4. Proof of sufficient English proficiency by submitting one of the following:

• Official transcripts from an accredited U.S. college or university showing successful completion of coursework including a college-level writing course (not ESOL).

• Official records from a foreign high school or higher education institution where English is the primary language of instruction may indicate English proficiency.

• Minimum scores on approved ESOL tests for admission into the Intensive English Program: TOEFL paper 347, TOEFL CBT 63, TOEFL IBT 19; TOEIC 255; or IELTS 2. Upon arrival, individuals will be assessed for placement into the intensive English program.

• TOEFL paper 530, TOEFL CBT 197, or TOEFL IBT 71; TOEIC 700; or IELTS 5.7 allow students to take the TSI test for admission into college-transfer courses.

• Students who have recently taken approved college assessment tests (SAT, ACT) may be exempt from part or all placement tests. See page 48.

Test scores are valid for 3 years.
The following chart was revised:

**CHART A**

(TSI Complete/Exempt)

Minimum Score and Course Requirements

<table>
<thead>
<tr>
<th>Test</th>
<th>MATH</th>
<th>READING</th>
<th>WRITING</th>
</tr>
</thead>
<tbody>
<tr>
<td>THEA/Quick THEA</td>
<td>230</td>
<td>230</td>
<td>220</td>
</tr>
<tr>
<td>ASSET</td>
<td>EA 38 or IA 36</td>
<td>41</td>
<td>40 and 5 essay or 6 essay only*</td>
</tr>
<tr>
<td>COMPASS</td>
<td>A 39</td>
<td>81</td>
<td>59 and 5 essay or 6 essay only*</td>
</tr>
<tr>
<td>ACCUPLACER</td>
<td>EA 63</td>
<td>78</td>
<td>80 and 5 essay or 6 essay only*</td>
</tr>
<tr>
<td>Courses</td>
<td>MATH 0308 ≥ C</td>
<td>ENGL 0305 ≥ C</td>
<td>ENGL 0307 ≥ C</td>
</tr>
<tr>
<td>TSI Exemptions:</td>
<td>Subject Score</td>
<td>Subject Score</td>
<td>Subject Score</td>
</tr>
<tr>
<td>** ACT</td>
<td>23 composite and 19 subject score (Valid for 5 years)</td>
<td>19</td>
<td>19</td>
</tr>
<tr>
<td>** SAT</td>
<td>1070 combined with 500 (verbal/critical reading)</td>
<td>500 (verbal/critical reading)</td>
<td>500 (verbal/critical reading)</td>
</tr>
<tr>
<td>11th Grade TAKS**</td>
<td>2200 w/ 3 on essay</td>
<td>2200 w/ 3 on essay</td>
<td></td>
</tr>
<tr>
<td>TAKS (Valid for 3 years)</td>
<td>2200 (student must still be assessed for placement)</td>
<td>2200 w/ 3 on essay</td>
<td></td>
</tr>
</tbody>
</table>

* The writing essay and objective components of the COMPASS and ACCUPLACER test instruments are to be taken at the same time for TSI purposes only.

** Students may be exempt from an individual section if they have the composite score and the required subject score.

The above text should now read as follows (effective 8/13):

**CHART A**

(TSI Complete/Exempt)

Minimum Score and Course Requirements

<table>
<thead>
<tr>
<th>Reading</th>
<th>Writing</th>
<th>Math</th>
</tr>
</thead>
<tbody>
<tr>
<td>SAT*</td>
<td>1070 combined with 500 (verbal/critical reading)</td>
<td>1070 combined with 500 Math</td>
</tr>
<tr>
<td>ACT*</td>
<td>23 composite with 19 English</td>
<td>23 composite with 19 Math</td>
</tr>
<tr>
<td>11th Grade TAKS**</td>
<td>2200 w/ 3 on essay</td>
<td>2200</td>
</tr>
<tr>
<td>TAAS***</td>
<td>89 Reading</td>
<td>1770 Writing</td>
</tr>
<tr>
<td>STAAR****</td>
<td>English II: Level II: 2000 (Reading) and 2000 (Writing)</td>
<td>Algebra II: Level II 4000+</td>
</tr>
</tbody>
</table>

*SAT and ACT: the combined score with the specified minimum scores above shall be exempt for those corresponding sections.

**TAKS: a minimum scale score of 2200 on the math section and/or a minimum scale score of 2200 on the English Language Arts section with a writing subsection score of at least 3, shall be exempt from the assessment required under this title for those corresponding sections.

*** TAAS: a minimum scale score of 1770 on the writing test, a Texas Learning Index (TLI) of 86 on the mathematics test and 89 on the reading test shall be exempt from the assessment required for those corresponding sections.

****STAAR end-of-course (EOC) with a minimum score of Level 2 on the English III shall be exempt from the TSI
Assessment for both reading and writing, and a minimum score of Level 2 on the Algebra II EOC shall be exempt from the TSI Assessment for the mathematics section.

SAT, ACT, STAAR, TAKS and TSI exemptions are valid for 5 years if the student has enrolled in an institution of higher education during that time period (does not have to be just LSCS); TAAS scores are valid for 3 years if the student has enrolled in an institution of higher education during that time period (does not have to be just LSCS).

Pages 48-51
The following text was revised:

**Texas Success Initiative (TSI) and LSC Student Success Initiative (SSI)**

Please note: Testing and placement requirements will undergo significant changes on August 26, 2013, the first day of class of the Fall 2013 Semester. Please refer to LoneStar.edu/placement-testing-info for the most current information.

As of September 1, 2003, Senate Bill 286, section 37 replaced the TASP statute with the Texas Success Initiative (TSI). Under the Texas Success Initiative, students will be assessed, receive the help they need to become college-ready, and be evaluated to determine when they are ready to enroll in college-level work.

The LSC Student Success Initiative implements appropriate prerequisites for all courses. All college level courses, with few exceptions, have college-level reading and writing prerequisites. These prerequisites will assure that students have the ability to succeed in courses at the collegiate level. The Texas Success Initiative requires assessment to determine when students are ready to enroll in college-level work. See CHART A for TSI requirements, scores, and exemption criteria. All students, unless exempt (see Chart A), must take a complete assessment (ASSET, COMPASS, ACCUPLACER, or THEA) prior to enrolling at LSC. Enrollment in most college-level courses requires scores high enough to place into the college-level course (see Chart B) or students will need to complete all appropriate developmental coursework with a “C” or better. All associate degrees, certificates over 42 credit hours, and post AAS certificates require completion of TSI requirements.

All transfer developmental courses must be a “C” or better or the student will need to retake the section of ASSET, ACCUPLACER, COMPASS, or THEA and score high enough to place into the college-level course (see Chart B).

Students will also be considered TSI Complete if:

- A student transfers in courses from a private, independent or an accredited out-of-state institution of higher education and has satisfactorily completed college level coursework, with a “C” or better, as found under “Courses to Satisfy TSI Requirement” listed at LoneStar.edu/TSI.
- A student has previously attended any Texas state college or university and has been determined to be TSI complete by that institution.
- A student has graduated with an associate or baccalaureate degree from an institution of higher education.
- A student is enrolled in a certificate program of one year or less (level one certificates, 42 or fewer semester credit hours or the equivalent).
- A student who is serving on active duty as a member of the armed forces of the United States, the Texas National Guard, or as a member of a reserve component of the armed forces of the United States and has been serving for at least three years preceding enrollment. Also, a student who on or after August 1, 1990, was honorably discharged, retired, or released from active duty as a member of the armed forces of the United States or the Texas National Guard or service as a member of a reserve component of the armed forces of the United States.

**Please Note:** All students must meet prerequisites for all courses.

The above text should now read as follows (effective 8/13):

Per the THECB requirement, the new TSI assessment became effective on the first day on class, August 26, 2013.

In accordance with the new state regulations, LSCS has implemented the following:
1. Pre-Assessment Activity: All students, who are not exempt from the TSI assessment, are required to take the Pre-Assessment Activity.

2. A student is considered TSI Complete and Exempt from mandatory assessment if:
   - The student has recently taken an approved college assessment test (SAT, ACT, STAAR, TAKS, TAAS) and earned the necessary scores (Chart A);
   - The student has completed the approved developmental course sequence;
   - The student transfers from a private or independent institution of higher education or an accredited out-of-state institution of higher education and who has satisfactorily completed college-level coursework as determined by LSCS;
   - The student who has previously attended any institution and has been determined to have met readiness standards by that institution.
   - The student has graduated with an associate or baccalaureate degree from an institution of higher education.
   - The student is enrolled in a certificate program of one year or less (Level-One certificates, 42 or fewer semester credit hours or the equivalent at a public junior college, a public technical institute, or a public state college).
   - The student is serving on active duty as a member of the armed forces of the United States, the Texas National Guard, or as a member of a reserve component of the armed forces of the United States and has been serving for at least three years preceding enrollment.
   - The student who on or after August 1, 1990, was honorably discharged, retired, or released from active duty as a member of the armed forces of the United States or the Texas National Guard or service as a member of a reserve component of the armed forces of the United States.

The LSC Student Success Initiative implements appropriate prerequisites for all courses. All college level courses, with few exceptions, have college level reading and writing prerequisites. These prerequisites will assure that students have the ability to succeed in courses at the collegiate level.

The Texas Success Initiative requires assessment to determine when students are ready to enroll in college-level work. See CHART A for TSI requirements, scores, and exemption criteria. All students, unless exempt (see Chart A), must take a complete assessment prior to enrolling at LSC.

Enrollment in most college-level courses requires scores high enough to place into the college-level course (see Chart B) or students will need to complete all appropriate developmental coursework with a “C” or better. All associate degrees, certificates over 42 credit hours, and post AAS certificates require completion of TSI requirements.

All transfer developmental courses must be a “C” or better or the student will need to retake the section of the TSI Assessment and score high enough to place into the college-level course (see Chart B).

Page 49
The following chart was revised:

<table>
<thead>
<tr>
<th>Course</th>
<th>ACCUPLACER</th>
<th>ACT</th>
<th>ASSET</th>
<th>COMPASS</th>
<th>SAT</th>
<th>TAKS (exit level)</th>
<th>THEA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Math</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>0306</td>
<td>EA 20:59</td>
<td></td>
<td>NS 23-42 or</td>
<td>A 0.35 or</td>
<td>233-34</td>
<td>0-35 or</td>
<td>0.230</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>EA 23-34</td>
<td>PA 0-99</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>0308</td>
<td>EA 60:71</td>
<td></td>
<td>NS 43+ or</td>
<td>A 36-49</td>
<td>35-42</td>
<td>PA - not used</td>
<td>231-252</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>IA 35-49</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>0310</td>
<td>EA 72:86</td>
<td></td>
<td>EA 43+ or</td>
<td>A 50-66</td>
<td>37-46</td>
<td>253-269</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>IA 37-46</td>
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<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1314</td>
<td>EA 87+</td>
<td>21</td>
<td>IA 47+ or</td>
<td>A 67+ or</td>
<td>25+</td>
<td>520-549</td>
<td>270+</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>CA 25+</td>
<td>CA 0-50</td>
<td></td>
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<td></td>
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<tr>
<td>1316, 1324, 1325, 1342, 1350, 1351</td>
<td>CLM 85+</td>
<td></td>
<td>CA 44-50</td>
<td>CA 51-99</td>
<td>550-599</td>
<td>CA 44-50</td>
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<tr>
<td>2412</td>
<td>CLM 94+ and B or better in HS PreCal or Trig</td>
<td></td>
<td>25 and B or better in HS PreCal or Trig</td>
<td>CA 44-50 and B or better in HS PreCal or Trig</td>
<td>600-649 and B or better in HS PreCal or Trig</td>
<td>500-559</td>
<td>270+</td>
</tr>
<tr>
<td>Course</td>
<td>Writing</td>
<td>Reading</td>
<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>--------</td>
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<td>----------------------------------</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>2413</td>
<td>CLM 103+ and B or better in HS PreCal or Trig</td>
<td>27 and B or better in HS PreCal or Trig</td>
<td></td>
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<td></td>
<td>27 and B or better in HS PreCal or Trig</td>
<td>CA 51-55 and B or better in HS PreCal or Trig</td>
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<td></td>
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<tr>
<td></td>
<td>CA 51-55 and B or better in HS PreCal or Trig</td>
<td>51:99 and B or better in HS PreCal or Trig</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>51:99 and B or better in HS PreCal or Trig</td>
<td>650+ and B or better in HS PreCal or Trig</td>
<td></td>
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<td></td>
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</tbody>
</table>

### Writing

<table>
<thead>
<tr>
<th>Course</th>
<th>Score</th>
<th>TSIA</th>
<th>TAKS</th>
<th>STAAR</th>
<th>ACT</th>
<th>SAT</th>
<th>COMPASS</th>
<th>ACCUPLACER</th>
</tr>
</thead>
<tbody>
<tr>
<td>0302*</td>
<td>0.50</td>
<td>23-34 and 6 or lower on essay</td>
<td>1.35 and 6 or lower on essay</td>
<td>0.179</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>0306*</td>
<td>0.50</td>
<td>23-34 and 6 or lower on essay</td>
<td>1.35 and 6 or lower on essay</td>
<td>0.179</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>0307*</td>
<td>51-79</td>
<td>35-44 and 6 or lower on essay; 45 and 5 or lower on essay</td>
<td>36-84 and 6 or lower on essay; 85 and 5 or lower on essay</td>
<td>180.219</td>
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<td></td>
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<tr>
<td>0309*</td>
<td>51-79</td>
<td>35-44 and 6 or lower on essay; 45 and 5 or lower on essay</td>
<td>36-84 and 6 or lower on essay; 85 and 5 or lower on essay</td>
<td>180.219</td>
<td></td>
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<tr>
<td>1301</td>
<td>80+ and 6 essay or 7 essay only</td>
<td>19+ and 6 essay or 7 essay only</td>
<td>500+ with 3+ writing essay</td>
<td>230+</td>
<td></td>
<td></td>
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<td></td>
</tr>
</tbody>
</table>

Reading and writing placement scores on COMPASS, ASSET, Accuplacer, and THEA are valid for five years. Math placement scores on COMPASS, ASSET, Accuplacer, and THEA are valid for three years. COMPASS/ESL scores are valid for three years. Students with expired test scores are required to retest.

The above text should now read as follows (effective 8/13):

**CHART B**

**Course Placement Scores** (Effective August 26, 2013)

<table>
<thead>
<tr>
<th>Course</th>
<th>TSIA</th>
<th>TAKS</th>
<th>STAAR</th>
<th>ACT</th>
<th>SAT</th>
<th>COMPASS</th>
<th>ACCUPLACER</th>
</tr>
</thead>
<tbody>
<tr>
<td>Math</td>
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<td>336-342</td>
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<td></td>
</tr>
<tr>
<td>0309</td>
<td>336-349</td>
<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>0310</td>
<td>343-349</td>
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</tr>
<tr>
<td>0312</td>
<td>310-349</td>
<td></td>
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<td></td>
</tr>
<tr>
<td>1314, 1324, 1332, 1342</td>
<td>350-390</td>
<td>2200</td>
<td>Algebra II: Level II 4000+</td>
<td>1922 (Composite 23)</td>
<td>500-549 (Composite 1070)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1316, 1325, 1350, 1351</td>
<td></td>
<td>23-24</td>
<td>550-999</td>
<td></td>
<td>CA 51-99</td>
<td>CML 85-93</td>
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</tr>
<tr>
<td>2412</td>
<td>25-26 and B or better in HS Pre-Cal or Trig</td>
<td>600-649 and B or better in HS Pre-Cal or Trig</td>
<td>CA 51-99 &amp; T 0-50 and B or better in HS Pre-Cal or Trig</td>
<td>CML 94-102 and B or better in HS Pre-Cal or Trig</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2413</td>
<td>27 and B or better in HS Pre-Cal or Trig</td>
<td>250+ and B or better in HS Pre-Cal or Trig</td>
<td>51:99 and B or better in HS Pre-Cal or Trig</td>
<td>CML 103+ and B or better in HS Pre-Cal or Trig</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Reading**

<table>
<thead>
<tr>
<th>Course</th>
<th>Score</th>
<th>TSIA</th>
<th>TAKS</th>
<th>STAAR</th>
<th>ACT</th>
<th>SAT</th>
<th>COMPASS</th>
<th>ACCUPLACER</th>
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</thead>
<tbody>
<tr>
<td>0304</td>
<td>310-341</td>
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<td>342-350</td>
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</tr>
<tr>
<td>1301</td>
<td>351-390</td>
<td>2200 and 3 on Essay</td>
<td>English III: Level II 2000+</td>
<td>19 (Composite 23)</td>
<td>500 (Composite 1070)</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
### Writing

<table>
<thead>
<tr>
<th>Course</th>
<th>Reading</th>
<th>Essay Score</th>
<th>Course</th>
<th>Reading</th>
<th>Essay Score</th>
<th>Course Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>0306</td>
<td>310-349</td>
<td>1-3 on Essay</td>
<td>1-300</td>
<td>2000+</td>
<td>19 (Composite 23)</td>
<td>500 (Composite 1070)</td>
</tr>
<tr>
<td>0307</td>
<td>350-362</td>
<td>1-3 on Essay</td>
<td>1-300</td>
<td>2000+</td>
<td>19 (Composite 23)</td>
<td>500 (Composite 1070)</td>
</tr>
<tr>
<td>1301</td>
<td>363-390</td>
<td>4 on Essay OR 5+ on Essay</td>
<td>2200 and 3 on Essay</td>
<td>English III: Level II 2000+</td>
<td>19 (Composite 23)</td>
<td>500 (Composite 1070)</td>
</tr>
</tbody>
</table>

### Integrated Reading and Writing (IRW)

<table>
<thead>
<tr>
<th>Course</th>
<th>Reading</th>
<th>Essay Score</th>
<th>Course</th>
<th>Reading</th>
<th>Essay Score</th>
<th>Course Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>0302</td>
<td>310-341</td>
<td>1-3 on Essay</td>
<td>1-300</td>
<td>2000+</td>
<td>19 (Composite 23)</td>
<td>500 (Composite 1070)</td>
</tr>
<tr>
<td>0309</td>
<td>342-350</td>
<td>1-3 on Essay</td>
<td>1-300</td>
<td>2000+</td>
<td>19 (Composite 23)</td>
<td>500 (Composite 1070)</td>
</tr>
<tr>
<td>1301</td>
<td>351-390</td>
<td>4 on Essay OR 5+ on Essay</td>
<td>2200 and 3 on Essay</td>
<td>English III: Level II 2000+ Reading and Writing</td>
<td>19 (Composite 23)</td>
<td>500 (Composite 1070)</td>
</tr>
</tbody>
</table>

Note: Students should visit with their advisors to learn about other campus options such as refresher courses and non-course based options.

### Pages 51-52

The following text was revised:

**Intensive English Program**

The Intensive English Program is designed for non-native English speakers who want to improve their language and culture skills. Students enroll in either credit or continuing education courses depending upon the student’s goal. The program has been accredited by the Commission on English Language Program Accreditation and is a member of the American Association of Intensive English Programs. Credit ESOL focuses on academically bound students and emphasizes preparation for college study. Students can earn institutional credit qualifying them for full-time student status, financial aid, and insurance needs. Students are awarded institutional semester credit hours.

Continuing education ESOL is designed for professionals, participants preparing to enter careers requiring English proficiency, and those seeking general broad-based English development. Students are awarded continuing education units for each level.

The above text should now read as follows (effective 8/13):

**Intensive English Program**

The Intensive English Program is designed for non-native English speakers who want to improve their language and culture skills. The LSC-CyFair and the LSC-North Harris programs have been accredited by the Commission on English Language Program Accreditation (CEA). Credit ESOL focuses on academically bound students and emphasizes preparation for college study. Students can earn institutional credit qualifying them for full-time student status, financial aid, and insurance needs. Students are awarded institutional semester credit hours.

Continuing education ESOL is designed for professionals, participants preparing to enter careers requiring English proficiency, and those seeking general broad-based English development. Students are awarded continuing education units for each level.
Page 52
The following text was revised:
In the semester before an ESOL student enters credit classes, the student should take the COMPASS test (not the COMPASS ESOL) as required by the State.

The above text should now read as follows (effective 8/13):
ESOL Waiver—A temporary waiver from the assessment is granted to students with demonstrated limited English proficiency in order to provide appropriate ESOL coursework and interventions. The waiver must be removed prior to the student coursework or attempting entry-level freshman coursework, whichever comes first, at which time the student would be administered the TSI Assessment. Funding limits as defined in Texas Education Code, §51.3062(l)(1) and (2) for developmental education still apply.

ESOL Placement
• Students who score into levels 1-3 of LSCS ESOL program are waived from the TSI;
• Students who tested into level 4 and/or 5 (developmental level courses) need to take TSI assessment;

In the semester before an ESOL student enters credit classes, the student should take the TSI assessment test (not the COMPASS ESOL) as required by the State.

Page 57
Price for transcripts should read “$9” instead of “none” (8/13).

The following text was changed:
2. Students who drop a course or who totally withdraw will have their tuition and fees refunded (EXCEPT for the registration fee, the payment plan service fee, or the late fee – if any are applicable). These refunds are in accordance with the following drops and withdrawals schedule.

The above text should now read as follows (12/13):
2. Students who drop a course or who totally withdraw before the first class day will have their tuition and fees refunded (EXCEPT for the registration fee, the payment plan service fee, or the late fee – if any are applicable). These refunds are in accordance with the following drops and withdrawals schedule.

Page 74
The following text was changed:
All grades are calculated for the student in the MyLoneStar portal; however, grades in developmental courses are not calculated in the grade point average on the official transcript.

The above text should now read as follows (8/13):
All grades are calculated for the student in the MyLoneStar portal; grades include both developmental and college credit courses.

Page 77
The following text is added to the chart in the “Internal Challenge Exams” table (8/13):
SRVY 1301

Page 105
The following program was added (10/13) effective fall 2013:

| Business Management Level 1 Certificate | ★ ★ ★ ★ ★ |

LSC-Tomball was removed from the list of colleges offering the Entrepreneurship Marketable Skills Certificate (11/13)
Page 106
The following programs were added (11/13) effective spring 2014:

- Industrial Diesel Technology AAS degree
- Industrial Diesel Technology Certificate I Level 1 Certificate

Page 108
The following program was added (7/13) effective summer 2014:

<table>
<thead>
<tr>
<th>DEGREES AND CERTIFICATES</th>
<th>CF</th>
<th>K</th>
<th>M</th>
<th>NH</th>
<th>T</th>
<th>UP</th>
<th>OL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Polysomnography (Pending THECB Approval)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Polysomnography AAS Degree</td>
<td>*</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Polysomnographic Technologist Certificate</td>
<td>*</td>
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<td></td>
</tr>
<tr>
<td>Advanced Polysomnographic Technologist Certificate</td>
<td>*</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

LSC-University Park was added to the list of campuses offering INFORMATION TECHNOLOGY CORE CERTIFICATE (12/13) effective spring 2014. The text should now read as follows:

- Computer Information Technology
  - Information Technology Core Certificate

Page 109
The following program was deactivated (7/13) effective fall 2013:
- PC Desktop Specialist Certificate

The following program was deactivated (7/13) effective fall 2013:
- Basic Electronics Certificate

Page 110
The following program was deactivated (7/13) effective fall 2013:
- Basic Electronics Certificate

The following programs were added (11/13) effective spring 2014:

- Industrial Diesel Technology AAS degree
- Industrial Diesel Technology Certificate I Level 1 Certificate

Page 113
The following program was deactivated (2/14) effective summer 2014:
- Diesel Technician

Page 118
The text below under the “ACCOUNTING CERTIFICATE” section was revised (2/14) effective summer 2014:

<table>
<thead>
<tr>
<th>FIRST YEAR</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCT 2401</td>
<td>4</td>
</tr>
<tr>
<td>ACNT 1331</td>
<td>3</td>
</tr>
<tr>
<td>ITSC 1401</td>
<td>4</td>
</tr>
<tr>
<td>ACCT 2402</td>
<td>4</td>
</tr>
<tr>
<td>ACNT 2303</td>
<td>3</td>
</tr>
</tbody>
</table>
Elective\(^1\)  Department Approved  3-4  
ACNT 2304 Intermediate Accounting II  3  
ACNT 2309 Cost Accounting  3  
ACNT\(^2\) 2331 Internal Control and Auditing  3  

The text now reads as follows (8/13) effective fall 2013:

**FIRST YEAR**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCT 2401 Principles of Accounting I</td>
<td>4</td>
</tr>
<tr>
<td>ACNT 1331 Fed. Income Tax: Individual</td>
<td>3</td>
</tr>
<tr>
<td>BCIS 1405 Business Computer Applications</td>
<td>4</td>
</tr>
<tr>
<td>ACCT 2402 Principles of Accounting II</td>
<td>4</td>
</tr>
<tr>
<td>ACNT 2303 Intermediate Accounting I</td>
<td>3</td>
</tr>
<tr>
<td>Elective(^1)  Department Approved</td>
<td>3-4</td>
</tr>
<tr>
<td>ACNT 2304 Intermediate Accounting II</td>
<td>3</td>
</tr>
<tr>
<td>ACNT 2309 Cost Accounting</td>
<td>3</td>
</tr>
<tr>
<td>ACNT(^2) 2331 Internal Control and Auditing</td>
<td>3</td>
</tr>
</tbody>
</table>

Page 119

In the course outline for ACCOUNTING, the following courses should be added to the footnote “Electives to be selected from” (10/13) effective spring 2014:

ACNT 1391  
IBUS 1305  

In the course outline for ACCOUNTING ADVANCED TECHNICAL CERTIFICATE-CPA EXAM PREPARATION, the following text was revised (1/14) effective spring 2014:

ACNT\(^4\) 1393 Federal Income Tax: Advanced  3  

The above text should now read:

ACNT\(^4\) 1393 Federal Income Tax: Advanced OR  3  
ACNT\(^4\) 2335 Financial Statement Analysis  

In the course outline for ACCOUNTING ADVANCED TECHNICAL CERTIFICATE-CPA EXAM PREPARATION, the following text was revised (1/14) effective spring 2014:

\(^3\) Choose accounting electives from the following: ACNT 1393, 2332, 2335, 2337  

The above text should now read:

\(^3\) Choose accounting electives from the following: ACNT 1391, 1393, 2332, 2335, 2337  

Page 121

In footnote 3 under the Administrative Services outline, the following text has been revised (10/13):  

\(^3\) Choose from AAS requirements. Either Humanities/Fine Arts or Social/Behavioral Science elective must also meet multicultural requirement  

The above text is replaced with the following (10/13):

\(^3\) Students in the Medical Specialty - track D should take BIOL 2404. Students in all other tracks should choose from AAS requirements. Either Humanities/Fine Arts or Social/Behavioral Science elective must also meet multicultural requirement.  

The following track of the Administrative Support Certificate has been deactivated (2/14) effective spring 2014:

**Track C: Legal Specialty C2_ALS2**

POFL 1303, POFL 1305, POFL 2301, POFL 2305, POFL 1340, BUSI 2301, ACNT 1303; any 3-4 hr. business or computer course; POFL 2380 – capstone course  

The following track of the Administrative Services degree has been deactivated (2/14) effective spring 2014:

**Track C: Legal Specialty AAS_ASLS**

POFL 1303, POFL 1305, POFL 2301, POFL 2305, POFL 1340, BUSI 2301, ACNT 1303; any 3-4 hr. business or computer course; POFL 2380 – capstone course
LSC-Tomball was removed from the list of colleges offering the Entrepreneurship Marketable Skills Certificate (11/13) effective fall 2013

The following text was deleted (7/13) effective fall 2013:

BUSINESS ADMINISTRATION
Associate of Applied Science degree

(AAS_BADM degree offered at LSC-CyFair, Kingwood, Montgomery, North Harris, Tomball and University Park)

FIRST YEAR

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 1301</td>
<td>3</td>
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<tr>
<td>BMGT 1327</td>
<td>3</td>
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<tr>
<td>Elective1</td>
<td>3</td>
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<tr>
<td>BCIS1 1405</td>
<td>4</td>
</tr>
<tr>
<td>MRKG 1311</td>
<td>3</td>
</tr>
<tr>
<td>ACCT 2401</td>
<td>4</td>
</tr>
<tr>
<td>BUSI 1301</td>
<td>3</td>
</tr>
<tr>
<td>ECON 2302</td>
<td>3</td>
</tr>
<tr>
<td>IBUS2 2341</td>
<td>3</td>
</tr>
<tr>
<td>SPCH 1315</td>
<td>3</td>
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</table>

SECOND YEAR

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit</th>
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<tbody>
<tr>
<td>HRPO 1311</td>
<td>3</td>
</tr>
<tr>
<td>HRPO 2301</td>
<td>3</td>
</tr>
<tr>
<td>BMGT 1309</td>
<td>3</td>
</tr>
<tr>
<td>BMGT 1341</td>
<td>3</td>
</tr>
<tr>
<td>BUSI 2304</td>
<td>3</td>
</tr>
<tr>
<td>BUSI 1307</td>
<td>3</td>
</tr>
<tr>
<td>BUSI 2301</td>
<td>3</td>
</tr>
<tr>
<td>BMGT4 2382</td>
<td>3</td>
</tr>
<tr>
<td>BMGT4 2388</td>
<td>3</td>
</tr>
<tr>
<td>Elective5</td>
<td>3-4</td>
</tr>
<tr>
<td>Elective6</td>
<td>3-4</td>
</tr>
<tr>
<td>Elective6</td>
<td>3</td>
</tr>
<tr>
<td>KINE</td>
<td>1</td>
</tr>
</tbody>
</table>

TOTAL Credit Hours for Business Administration AAS: 66-68

1. See AAS degree requirements
2. ITSC/COSC 1401 may be substituted
3. Meets multicultural requirements
4. Capstone course
5. Suggested elective: MATH 1314 College Algebra; Students must meet TSI requirements. See LoneStar.edu/TSI for details.
6. The specialization electives are chosen from any BUSI, BMGT, BUSG, HRPO, IBUS, MRKG, AIRP, AVIM or HMSY course.

The following text replaces the above text that was removed (7/13) effective fall 2013:

BUSINESS MANAGEMENT LEVEL 1 CERTIFICATE

(C1_BSM1 certificate offered at LSC-CyFair, Kingwood, Montgomery, North Harris, Tomball and University Park)

FIRST SEMESTER

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUSI 1301</td>
<td>3</td>
</tr>
<tr>
<td>BMGT 1327</td>
<td>3</td>
</tr>
<tr>
<td>BMGT 1309</td>
<td>3</td>
</tr>
<tr>
<td>BCIS 1405</td>
<td>4</td>
</tr>
<tr>
<td>SPCH 1315</td>
<td>3</td>
</tr>
</tbody>
</table>

TOTAL Credit Hours for Business Management Level 1 Certificate: 16

1. May substitute COSC 1401 or ITSC 1401.
2. May substitute SPCH 1321.
**BUSINESS ADMINISTRATION**  
Associate of Applied Science degree  

<table>
<thead>
<tr>
<th>Level One Certificate in Business Administration</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>FIRST YEAR</strong></td>
</tr>
<tr>
<td><strong>FIRST SEMESTER</strong></td>
</tr>
<tr>
<td>BUSI 1301</td>
</tr>
<tr>
<td>BMGT 1327</td>
</tr>
<tr>
<td>BMGT 1309</td>
</tr>
<tr>
<td>BCIS 1405</td>
</tr>
<tr>
<td>SPCH 1315</td>
</tr>
<tr>
<td>Upon successful completion of the first semester a student will have earned a Level One Certificate in Business Administration.</td>
</tr>
<tr>
<td><strong>SECOND SEMESTER</strong></td>
</tr>
<tr>
<td>HRPO 1311</td>
</tr>
<tr>
<td>HRPO 2301</td>
</tr>
<tr>
<td>IBUS 2341</td>
</tr>
<tr>
<td>BUSI, BMGT, BUSG, HRPO, HMSY, or MKRG</td>
</tr>
<tr>
<td>Upon successful completion of the first and second semesters, a student may be eligible for the Human Resources Certificate.</td>
</tr>
<tr>
<td><strong>SUMMER SEMESTER</strong></td>
</tr>
<tr>
<td>BUSI 2301</td>
</tr>
<tr>
<td>BUSI, BMGT, BUSG, HRPO, MRKG, OR HMSY</td>
</tr>
<tr>
<td><strong>SECOND YEAR</strong></td>
</tr>
<tr>
<td><strong>FIRST SEMESTER</strong></td>
</tr>
<tr>
<td>ACCT 2401</td>
</tr>
<tr>
<td>MRKG 1311</td>
</tr>
<tr>
<td>ENGL 1301</td>
</tr>
<tr>
<td>BUSI 1307</td>
</tr>
<tr>
<td><strong>SECOND SEMESTER</strong></td>
</tr>
<tr>
<td>BMGT 1341</td>
</tr>
<tr>
<td>BUSI 2304</td>
</tr>
<tr>
<td>Math/Science elective</td>
</tr>
<tr>
<td>BMGT 2382</td>
</tr>
<tr>
<td>BMGT 2388</td>
</tr>
<tr>
<td><strong>SUMMER SEMESTER</strong></td>
</tr>
<tr>
<td>ECON 2301</td>
</tr>
<tr>
<td>Humanities/Fine Arts elective</td>
</tr>
<tr>
<td>KINE Elective</td>
</tr>
<tr>
<td><strong>TOTAL Credit Hours for Business Administration AAS</strong></td>
</tr>
</tbody>
</table>

1. May substitute COSC 1401 or ITSC 1401.  
2. May substitute SPCH 1321.  
3. Meets multicultural requirement  
4. Specialization Elective chosen from any BUSI, BMGT, BUSG, HRPO, MRKG, or HMSY course. (Students seeking the HR Management Certificate should take HRPO 2307 during the 2nd semester of 1st year.)  
5. Suggested elective: MATH 1314; students must meet TSI requirements. See LoneStar.edu/TSI for details.  
6. Capstone course  
7. Choose from the AAS core

---

Page 127  
LSC-University Park was added to the list of campuses offering INFORMATION TECHNOLOGY CORE CERTIFICATE (12/13) effective spring 2014.

Page 128  
The text below in the course outline for INTEGRATED TECHNOLOGY ADVANCED CERTIFICATE was revised:
Choose from ITCC 2441, ITSE 1445, ITNW 2452, ITSY 2400, ITSY 2401, EECT 1371, EECT 1307, ITMT 1472, ITMT 2470.

The text below in the course outline for INTEGRATED TECHNOLOGY was revised:

Choose from ITCC 2441, ITSE 1445, ITNW 2452, ITSY 2400, ITSY 2401, EECT 1371, EECT 1307, ITMT 1472, ITMT 2470.

The above text is replaced with the following (11/13) effective spring 2014:

Choose from ITCC 2441, ITSE 1445, ITNW 2452, ITSY 2400, ITSY 2401, EECT 1371, EECT 1307, ITMT 1472, ITMT 2470.

The text below under the “Computer Networking Specialization” section was changed:

FIRST YEAR Credit
BMGT 1309 Information & Project Management 3

The text now reads as follows (11/13) effective spring 2014:

FIRST YEAR Credit
ITSC 1315 Project Management Software 3

Page 129

The text below under the “Computer Networking Specialization” section was changed:

Cisco Track [AAS_CNCI]: ITCC 1401, ITCC 1404, ITCC 2408, ITCC 2410

The text now reads as follows (8/13) effective fall 2013:

Cisco Track [AAS_CNCI]: ITCC 1401, ITCC 1404, ITCC 2408, ITCC 2410 OR ITCC 1475, 1476, 2478, 2479

The text below under the “Network Administrator Certificate - MS Level 1/CCNA” section was changed:

Cisco Track (C1_CCNA): ITCC 1401, ITCC 1404, ITCC 2408, ITCC 2410

The text now reads as follows (8/13) effective fall 2013:

Cisco Track (C1_CCNA): ITCC 1401, ITCC 1404, ITCC 2408, ITCC 2410 OR ITCC 1475, 1476, 2478, 2479

The text below under the “NETWORK ENGINEER CERTIFICATE-MS LEVEL II/CCNP” section was changed:

Cisco Track (C1_CCNP): ITCC 1401, ITCC 1404, ITCC 2408, ITCC 2410 OR ITCC 1475, 1476, 2478, 2479

The text now reads as follows (8/13) effective fall 2013:

Cisco Track (C1_CCNP): ITCC 1401, ITCC 1404, ITCC 2408, ITCC 2410 OR ITCC 1475, 1476, 2478, 2479, ITCC 2454, 2455, 2456

The following program was deactivated (fall 2013):

PC DESKTOP SPECIALIST CERTIFICATE

(C1_PCDS certificate offered at LSC-CyFair, Kingwood, Montgomery, North Harris and Tomball)

FIRST YEAR Credit
ITSC 1401 Introduction to Computers OR 4
COSC 1401 Introduction to Computers
BMGT 1309 Information & Project Management 3
ITNW 1425 Fundamentals of Networking OR 4
ITCC 1401 Cisco Exploration I-Network Fundamentals
ITSC 1405 Intro to PC Operating Systems 4
POFT 1301 Business English 3
ITSW 1301 Intro to Word Processing 3
ITSW 1404 Introduction to Spreadsheets 4
POFT 1325 Business Math Using Technology 3
Page 130
The following course replaced ITSE 1492 as an elective to the plans for Programming Specialist Certificate and Programming Specialist Specialization (11/13) effective spring 2014:
ITSE 2453

Page 131
In the degree plan for E-BUSINESS WEB DEVELOPER CERTIFICATE, the following text has been revised:
1 ITSE 1432, 1407, 1445, 1492
2 ITSE 2449, 2431, 2454, 2417, 1492

The above text is replaced with the following (11/13) effective spring 2014:
1 ITSE 1432, 1407, 1430
2 ITSE 2449, 2431, 2454, 2417, 2453

In the degree plan for E-BUSINESS WEB DEVELOPER SPECIALIZATION, the following text has been revised:
FIRST YEAR Credit
BMGT 1309 Information & Project Management 3

The above text is replaced with the following (11/13) effective spring 2014:
FIRST YEAR Credit
ITSC 1315 Project Management Software 3

In the degree plan for E-BUSINESS WEB DEVELOPER SPECIALIZATION, the following text has been revised:
2 Choose from ITSE 1407, 1432, 1445, 1492
3 ITSE 1430, 2433, 2456, or ITSW 2437 depending on concentration

The above text is replaced with the following (11/13) effective spring 2014:
2 Choose from ITSE 1407, 1432, 1445, 1430
3 ITSE 2433, 2456, or ITSW 2437 depending on concentration

Page 132
In the degree plan for E-BUSINESS WEB DEVELOPER SPECIALIZATION, the following text has been revised:
5 Choose from ITSE 2449, 2431, 2454, 2417, 1492

The above text is replaced with the following (11/13) effective spring 2014:
5 Choose from ITSE 2449, 2431, 2454, 2417, 2453

Page 143
In the degree plan for Field Service Technician, the following text is deleted (9/13) effective spring 2014:
DFTG 1325 Blueprint Reading & Sketching 3

In the degree plan for Field Service Technician, the following text is added (9/13) effective spring 2014:
MCHN 1302 Print Reading for Machine Trades 3

Page 144
The following plans were added (11/13) effective spring 2014:
INDUSTRIAL DIESEL TECHNOLOGY CERTIFICATE I LEVEL 1 CERTIFICATE
### Industrial Diesel Technology Certificate I Level 1 Certificate

**FIRST YEAR**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>DEMR 1301</td>
<td>Shop Safety and Procedures</td>
<td>3</td>
</tr>
<tr>
<td>DEMR 1306</td>
<td>Diesel Engine I</td>
<td>3</td>
</tr>
<tr>
<td>DEMR 1313</td>
<td>Fuel Systems</td>
<td>3</td>
</tr>
<tr>
<td>DEMR 1305</td>
<td>Basic Electrical Systems</td>
<td>3</td>
</tr>
<tr>
<td>DEMR 1310</td>
<td>Diesel Engine Testing and Repair I</td>
<td>3</td>
</tr>
</tbody>
</table>

**TOTAL Credits for Industrial Diesel Technology Certificate I Level 1 Certificate**: 15

1 Capstone course

### Industrial Diesel Technology Certificate II Level 2 Certificate

**FIRST YEAR**

**FIRST SEMESTER**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit</th>
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<tbody>
<tr>
<td>DEMR 1301</td>
<td>Shop Safety and Procedures</td>
<td>3</td>
</tr>
<tr>
<td>DEMR 1306</td>
<td>Diesel Engine I</td>
<td>3</td>
</tr>
<tr>
<td>DEMR 1313</td>
<td>Fuel Systems</td>
<td>3</td>
</tr>
<tr>
<td>DEMR 1305</td>
<td>Basic Electrical Systems</td>
<td>3</td>
</tr>
<tr>
<td>DEMR 1310</td>
<td>Diesel Engine Testing and Repair I</td>
<td>3</td>
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</tbody>
</table>

**SECOND SEMESTER**

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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit</th>
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<tbody>
<tr>
<td>DEMR 2332</td>
<td>Electronic Controls</td>
<td>3</td>
</tr>
<tr>
<td>DEMR 1349</td>
<td>Diesel Engine II</td>
<td>3</td>
</tr>
<tr>
<td>DEMR 1229</td>
<td>Preventative Maintenance</td>
<td>2</td>
</tr>
<tr>
<td>DEMR 1316</td>
<td>Basic Hydraulics</td>
<td>3</td>
</tr>
<tr>
<td>DEMR 1317</td>
<td>Basic Brake Systems</td>
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### SECOND YEAR

**FIRST SEMESTER**

<table>
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<th>Course Code</th>
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<tbody>
<tr>
<td>DEMR 1323</td>
<td>Heating, Ventilation, and Air Conditioning Troubleshooting and Repair</td>
<td>3</td>
</tr>
<tr>
<td>DEMR 2334</td>
<td>Advanced Diesel Tune-up and Troubleshooting</td>
<td>3</td>
</tr>
<tr>
<td>DEMR 2312</td>
<td>Diesel Engine Testing and Repair II</td>
<td>3</td>
</tr>
<tr>
<td>DEMR 1321</td>
<td>Power Train I</td>
<td>3</td>
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<tr>
<td>DEMR 2380</td>
<td>Cooperative Education - Diesel Mechanics Tech</td>
<td>3</td>
</tr>
</tbody>
</table>

**TOTAL Credits for Industrial Diesel Technology Certificate II Level 2 Certificate**: 44

1 Capstone course

### Industrial Diesel Technology Associate of Applied Science Degree

**FIRST YEAR**

**FIRST SEMESTER**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit</th>
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<tbody>
<tr>
<td>DEMR 1301</td>
<td>Shop Safety and Procedures</td>
<td>3</td>
</tr>
<tr>
<td>DEMR 1306</td>
<td>Diesel Engine I</td>
<td>3</td>
</tr>
<tr>
<td>DEMR 1313</td>
<td>Fuel Systems</td>
<td>3</td>
</tr>
<tr>
<td>DEMR 1305</td>
<td>Basic Electrical Systems</td>
<td>3</td>
</tr>
<tr>
<td>DEMR 1310</td>
<td>Diesel Engine Testing and Repair I</td>
<td>3</td>
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**SECOND SEMESTER**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit</th>
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<tbody>
<tr>
<td>DEMR 2332</td>
<td>Electronic Controls</td>
<td>3</td>
</tr>
<tr>
<td>DEMR 1349</td>
<td>Diesel Engine II</td>
<td>3</td>
</tr>
<tr>
<td>DEMR 1229</td>
<td>Preventative Maintenance</td>
<td>2</td>
</tr>
<tr>
<td>DEMR 1316</td>
<td>Basic Hydraulics</td>
<td>3</td>
</tr>
<tr>
<td>DEMR 2380</td>
<td>Cooperative Education - Diesel Mechanics Tech</td>
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**SECOND YEAR**

**FIRST SEMESTER**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit</th>
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<tbody>
<tr>
<td>ENGL 1301</td>
<td>Composition &amp; Rhetoric I</td>
<td>3</td>
</tr>
<tr>
<td>Natural Science/Math</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>DEMR 1317</td>
<td>Basic Brake Systems</td>
<td>3</td>
</tr>
</tbody>
</table>
DEMR 2334 Advanced Diesel Tune-up and Troubleshooting 3
KINE 1
DEMR 1323 Heating, Ventilation, and Air Conditioning Troubleshooting and Repair 3

SECOND SEMESTER
SPCH 1321 Business and Professional Communication 3
DEMR 2312 Diesel Engine Testing and Repair II 3
DEMR 1321 Power Train I 3
DEMR 2381 Cooperative Education - Diesel Mechanics Tech 3
Social Behavioral Science 3

TOTAL Credits for Industrial Diesel Technology AAS 60

1 Choose from the AAS core
2 Meets wellness competency
3 Select a course from the AAS core that meets the multicultural requirement
4 Capstone course

The following certificate plan has been added (9/13) effective spring 2014:

PENDING THECB APPROVAL
PETROLEUM DATA TECHNOLOGY CERTIFICATE LEVEL 1 CERTIFICATE
(Level 1 certificate offered at LSC-Cyfair and LSC-Tomball)

FIRST YEAR

FIRST SEMESTER
PTRT 1301 Introduction to Petroleum Industry 3
ITSC 1401 Introduction to Computers OR 4
COSC 1401 Introduction to Computers
PTRT 1370 Petroleum Geology 3
PTRT 1371 Petroleum Data Management I - Exploration 3

SECOND SEMESTER
TECM 1303 Technical Calculations 3
ITSW 1404 Introduction to Spreadsheets 4
PTRT 1373 Exploration and Production I 3
ITSW 1407 Introduction to Databases 4

THIRD SEMESTER
PTRT 1372 Petroleum Data Management II - Drilling and Production 3
PTRT 2380 Cooperative Education - Petroleum Technology/Technician 3

TOTAL Credits for Petroleum Data Technology Certificate Level 1 Certificate 33
1 Capstone course

In the degree plan for Petroleum Field Service Technician Certificate, the following text is deleted (9/13) effective spring 2014:
DFTG 1325 Blueprint Reading & Sketching 3

In the degree plan for Petroleum Field Service Technician Certificate, the following text is added (9/13) effective spring 2014:
MCHN 1302 Print Reading for Machine Trades 3

Page 145

In the degree plan for Petroleum Field Service Technician AAS, the following text is deleted (9/13) effective spring 2014:
DFTG 1325 Blueprint Reading & Sketching 3

In the degree plan for Petroleum Field Service Technician AAS, the following text is added (9/13) effective spring 2014:
The following text has been added to both tracks of the Discipline Track Courses section of the COMPUTER-AIDED DESIGN OPERATOR/DRAFTING CERTIFICATE outline (10/13) effective spring 2014:
DFTG 1391

Page 146
The following was added to the ARCHITECTURAL ENGINEERING TECHNOLOGY SPECIALIZATION outline, after “ENTC 1423 Strength of Materials 4” (10/13) effective spring 2014:
DFTG 1391 Special topics in Drafting and Design Technology OR

The following degree outline was added (10/13) effective spring 2014:
MECHANICAL ENGINEERING (PENDING THECB APPROVAL)
Associate of Science degree
(offered at LSC-CyFair, Kingwood, Montgomery, Tomball and University Park)

<table>
<thead>
<tr>
<th>FIRST YEAR</th>
<th>Credit</th>
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<tbody>
<tr>
<td>MATH 2413</td>
<td>Calculus I 4</td>
</tr>
<tr>
<td>CHEM 1411</td>
<td>General Chemistry I 4</td>
</tr>
<tr>
<td>ENGR 1201</td>
<td>Introduction to Engineering 2</td>
</tr>
<tr>
<td>ENGL 1301</td>
<td>Composition &amp; Rhetoric I 3</td>
</tr>
<tr>
<td>HIST 1301</td>
<td>United States History to 1877 3</td>
</tr>
<tr>
<td>MATH 2414</td>
<td>Calculus II 4</td>
</tr>
<tr>
<td>PHYS 2425</td>
<td>Mechanics &amp; Heat 4</td>
</tr>
<tr>
<td>ENGR 1304</td>
<td>Engineering Graphics I 3</td>
</tr>
<tr>
<td>HIST 1302</td>
<td>United States History Since 1877 3</td>
</tr>
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</table>

<table>
<thead>
<tr>
<th>SECOND YEAR</th>
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<tbody>
<tr>
<td>MATH 2415</td>
<td>Calculus III 4</td>
</tr>
<tr>
<td>PHYS 2426</td>
<td>Electricity, Magnetism, and Light 4</td>
</tr>
<tr>
<td>ENGR 2301</td>
<td>Engineering Mechanics: Statics 3</td>
</tr>
<tr>
<td>ENGR 2304</td>
<td>Programming for Engineers 3</td>
</tr>
<tr>
<td>GOVT 2305</td>
<td>Federal Government 3</td>
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<tr>
<td>MATH 2320</td>
<td>Differential Equations 3</td>
</tr>
<tr>
<td>ENGR 2405</td>
<td>Electrical Circuits I 4</td>
</tr>
<tr>
<td>ENGR 2302</td>
<td>Engineering Mechanics: Dynamics 3</td>
</tr>
<tr>
<td>GOVT 2306</td>
<td>Texas Government 3</td>
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</table>

TOTAL Credits for Mechanical Engineering AS 60

The following was added to the MECHANICAL ENGINEERING TECHNOLOGY SPECIALIZATION outline, after “DFTG 2338 Final Project - Advanced Drafting” (10/13) effective spring 2014:
OR
DFTG 1391 Special topics in Drafting and Design Technology 3

Page 147
The following program was deactivated (fall 2013):

BASIC ELECTRONICS CERTIFICATE
(CELT certificate offered at LSC-CyFair)

<table>
<thead>
<tr>
<th>FIRST YEAR</th>
<th>Credit</th>
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<tbody>
<tr>
<td>ITSC 1401</td>
<td>Introduction to Computers OR 4</td>
</tr>
<tr>
<td>COSC 1401</td>
<td>Introduction to Computers</td>
</tr>
<tr>
<td>CETT 1403</td>
<td>DC Circuits 4</td>
</tr>
<tr>
<td>MATH 1314</td>
<td>College Algebra 3</td>
</tr>
<tr>
<td>CETT 1405</td>
<td>AC Circuits 4</td>
</tr>
<tr>
<td>CETT 1425</td>
<td>Digital Fundamentals 4</td>
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</tbody>
</table>
The following text was revised:

**COMPUTER ENGINEERING TECHNOLOGY SPECIALIZATION**

**Associate of Applied Science degree**

(AAS_CETS specialization offered at LSC-CyFair)

<table>
<thead>
<tr>
<th>Prerequisite</th>
<th>Credit</th>
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<tbody>
<tr>
<td>ITSC 1401 Introduction to Computers OR</td>
<td>4</td>
</tr>
<tr>
<td>COSC 1401 Introduction to Computers OR</td>
<td>4</td>
</tr>
<tr>
<td>CPMT 1403 Introduction to Computer Technology</td>
<td>4</td>
</tr>
</tbody>
</table>

**FIRST YEAR**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>CETT 1409 DC–AC Circuits</td>
<td>4</td>
</tr>
<tr>
<td>Elective¹ Humanities/Fine Arts</td>
<td>3</td>
</tr>
<tr>
<td>Elective¹ Social/Behavioral Sciences</td>
<td>3</td>
</tr>
<tr>
<td>ITSE 1402 Computer Programming</td>
<td>4</td>
</tr>
<tr>
<td>MATH 1316 Trigonometry</td>
<td>3</td>
</tr>
<tr>
<td>MATH 1314 College Algebra</td>
<td>3</td>
</tr>
<tr>
<td>SPCH 1318 Interpersonal Communications</td>
<td>3</td>
</tr>
<tr>
<td>CETT 1425 Digital Fundamentals</td>
<td>4</td>
</tr>
<tr>
<td>Elective² Technical</td>
<td>4</td>
</tr>
<tr>
<td>ENGL 1301 Composition &amp; Rhetoric I</td>
<td>3</td>
</tr>
</tbody>
</table>

**SECOND YEAR**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit</th>
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<tbody>
<tr>
<td>CETT 1429 Solid State Devices</td>
<td>4</td>
</tr>
<tr>
<td>CETT 1445 Microprocessor</td>
<td>4</td>
</tr>
<tr>
<td>CPMT 1445 Computer Systems Maintenance</td>
<td>4</td>
</tr>
<tr>
<td>MATH 1316 Trigonometry</td>
<td>3</td>
</tr>
<tr>
<td>ITSE 1442 Information Technology Security</td>
<td>4</td>
</tr>
<tr>
<td>CPMT 2433 Computer Integration</td>
<td>4</td>
</tr>
<tr>
<td>Elective³ Technical (Capstone Course)</td>
<td>3-4</td>
</tr>
<tr>
<td>KINE  Any physical activity course</td>
<td>1</td>
</tr>
</tbody>
</table>

**TOTAL Credits for Computer Engineering Technology Specialization 66-67**

1. To meet multicultural requirement, choose either SOCI 1301 or any foreign language
2. Choose technical elective from CPMT 1449, EECT 2439, ELMT 2433, or departmental approval
3. Capstone course. Choose from CETT 2449, EECT 2380 or ELMT 2433"
SECOND YEAR  Credit

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CETT 1429</td>
<td>Solid State Devices</td>
<td>4</td>
</tr>
<tr>
<td>CETT 1445</td>
<td>Microprocessor</td>
<td>4</td>
</tr>
<tr>
<td>CPMT 1445</td>
<td>Computer Systems Maintenance</td>
<td>4</td>
</tr>
<tr>
<td>MATH 1316</td>
<td>Trigonometry</td>
<td>3</td>
</tr>
<tr>
<td>ITSY 1442</td>
<td>Information Technology Security</td>
<td>4</td>
</tr>
<tr>
<td>CPMT 2433</td>
<td>Computer Integration</td>
<td>4</td>
</tr>
<tr>
<td>Elective 3</td>
<td>Technical (Capstone Course)</td>
<td>3-4</td>
</tr>
<tr>
<td>KINE</td>
<td>Any physical activity course</td>
<td>1</td>
</tr>
</tbody>
</table>

**TOTAL Credits for Computer Engineering Technology Specialization**: 66-67

1. To meet multicultural requirement, choose either SOCI 1301 or any foreign language
2. Choose technical elective from CPMT 1449, EECT 2439, ELMT 2433, or departmental approval
3. Capstone course. Choose from CETT 2449, EECT 2380 or ELMT 2433

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**Page 149**

The following course has been added to the list of electives available to Fire Science Technology students:

FIRT 1391

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**Pages 157–158**

The following text was revised:

**HUMAN SERVICES**

Associate of Applied Science degree

(degree offered at LSC-Montgomery)

**FIRST YEAR**  Credit

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>SCWK 1321</td>
<td>Orientation to Social Services</td>
<td>3</td>
</tr>
<tr>
<td>DAAC 1317</td>
<td>Basic Counseling Skills</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 1301</td>
<td>Composition and Rhetoric I</td>
<td>3</td>
</tr>
<tr>
<td>ITSC 1401</td>
<td>Introduction to Computers</td>
<td>4</td>
</tr>
<tr>
<td>COSC 1401</td>
<td>Introduction to Computers</td>
<td></td>
</tr>
<tr>
<td>PSYC 2301</td>
<td>General Psychology</td>
<td>3</td>
</tr>
<tr>
<td>SCWK 2331</td>
<td>Abnormal Behavior</td>
<td>3</td>
</tr>
<tr>
<td>Elective 1</td>
<td>Technical Track Elective</td>
<td>3</td>
</tr>
<tr>
<td>DAAC 1311</td>
<td>Counseling Theories</td>
<td>3</td>
</tr>
<tr>
<td>Elective 2</td>
<td>Humanities/Fine Arts</td>
<td>3</td>
</tr>
<tr>
<td>SOCI 1301</td>
<td>Principles of Sociology</td>
<td>3</td>
</tr>
<tr>
<td>KINE</td>
<td>Any physical activity course</td>
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**SECOND YEAR**  Credit

<table>
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<th>Course</th>
<th>Description</th>
<th>Credits</th>
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<tbody>
<tr>
<td>GOVT 2305</td>
<td>Federal Government OR</td>
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<tr>
<td>GOVT 2306</td>
<td>Texas Government</td>
<td></td>
</tr>
<tr>
<td>Elective 1</td>
<td>Technical Track Elective</td>
<td>3</td>
</tr>
<tr>
<td>Elective 1</td>
<td>Technical Track Elective</td>
<td>3</td>
</tr>
<tr>
<td>DAAC 2354</td>
<td>Dynamics of Group Counseling</td>
<td>3</td>
</tr>
<tr>
<td>Elective 2</td>
<td>Academic</td>
<td>3</td>
</tr>
<tr>
<td>DAAC 2360</td>
<td>Clinical OR</td>
<td>3</td>
</tr>
<tr>
<td>SCWK 2386</td>
<td>Internship</td>
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<tr>
<td>Elective 1</td>
<td>Technical Track Elective</td>
<td>3</td>
</tr>
<tr>
<td>Elective 1</td>
<td>Technical Track Elective</td>
<td>3</td>
</tr>
<tr>
<td>Elective 3</td>
<td>Math/Natural Science</td>
<td>3-4</td>
</tr>
<tr>
<td>SPCH 230</td>
<td>Elective</td>
<td>3</td>
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</tbody>
</table>

**TOTAL Credits for Human Services AAS Degree**: 62-63

1. Technical electives should all be taken from the same track. See faculty for assistance in determining which track will work best for you.

**Track A - Substance Abuse Counseling Concentration AAS HSSA**:

Students pursuing Track A must select DAAC 1304, DAAC 1319, DAAC 2341, DAAC 1309. In addition, students must also select one of
the following courses for their final elective: CMSW 1353, CMSW 1341, CMSW 1309, or DAAC 2343.

Track B - General Human Services Concentration AAS_HSGN:
Students pursuing Track B must select CMSW 1353. In addition, students must also select four electives chosen from DAAC, CMSW, or GERS.

2 Refer to the catalog for Associate of Applied Science degree requirements and a list of approved courses.
3 Meets multicultural requirement
4 Capstone course
5 Students pursuing Track A must complete the DAAC clinical requirement. Students may also take DAAC 2160 and DAAC 2260 to fulfill this field placement requirement, as long as 3 credit hours are obtained in total.
6 Students pursuing Track B must complete the SCWK internship requirement. Students may also take SCWK 2186 and SCWK 2286 to fulfill this field placement requirement, as long as 3 credit hours are obtained in total. Students may also take DAAC 2360 or DAAC 2160 AND 2260 for 3 total credits.
7 Students should consult their prospective senior institution’s catalog for science, math, and speech requirements.
8 Choose from SPCH 1311, 1315, 1318 or 1321.

Note: Students must meet TSI requirements. See LoneStar.edu/TSI for details.

The above text is replaced with the following (11/13) effective spring 2014:

HUMAN SERVICES
GENERAL HUMAN SERVICES TRACK
Associate of Applied Science degree
(AAS_HSGN degree offered at LSC-Montgomery)

<table>
<thead>
<tr>
<th>FIRST YEAR</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>SCWK 1321 Orientation to Social Services</td>
<td>3</td>
</tr>
<tr>
<td>DAAC 1317 Basic Counseling Skills</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 1301 Composition and Rhetoric I</td>
<td>3</td>
</tr>
<tr>
<td>ITSC 1401 Introduction to Computers OR COSC 1401 Introduction To Computers</td>
<td>4</td>
</tr>
<tr>
<td>PSYC 2301 General Psychology</td>
<td>3</td>
</tr>
<tr>
<td>SCWK 2331 Abnormal Behavior</td>
<td>3</td>
</tr>
<tr>
<td>CMSW 1353 Family Intervention Strategies</td>
<td>3</td>
</tr>
<tr>
<td>DAAC 1311 Counseling Theories</td>
<td>3</td>
</tr>
<tr>
<td>Elective Humanities/Fine Arts</td>
<td>3</td>
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<tr>
<td>SOCI 1301 Principles of Sociology</td>
<td>3</td>
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<tr>
<td>KINE Any physical activity course</td>
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<thead>
<tr>
<th>SECOND YEAR</th>
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<tbody>
<tr>
<td>GOVT 2305 Federal Government OR GOVT 2306 Texas Government</td>
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<tr>
<td>Elective Elective (CMSW, DAAC, SCWK)</td>
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<td>DAAC 2354 Dynamics of Group Counseling</td>
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<td>Elective Elective (CMSW, DAAC, SCWK)</td>
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<td>Elective Elective (CMSW, DAAC, SCWK)</td>
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<tr>
<td>Elective Math/Natural Science 3-4</td>
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<td>SPCHI Elective</td>
<td>3</td>
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<tr>
<td>DAAC 2360 Clinical OR SCWK 2386 Internship</td>
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<td>Elective Academic</td>
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**TOTAL Credits for Human Services AAS Degree (General Human Services Track) 62-63**

1 Refer to the catalog for associate of applied science degree requirements and a list of approved courses.
2 Students should consult their prospective senior institution’s catalog for science, math, and speech requirements.
3 Capstone course; Students may also take SCWK 2186 and SCWK 2286 OR DAAC 2161 and DAAC 2260 to fulfill the capstone requirements, as long as a total of 3 credit hours are successfully completed.
4 See core course requirements for options.

Note: Students must meet TSI requirements. See LoneStar.edu/TSI for details.

HUMAN SERVICES
SUBSTANCE ABUSE COUNSELING TRACK
Associate of Applied Science degree
(AAS_HSSA degree offered at LSC-Montgomery)

<table>
<thead>
<tr>
<th>FIRST YEAR</th>
<th>Credits</th>
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<tbody>
<tr>
<td>SCWK 1321 Orientation to Social Services</td>
<td>3</td>
</tr>
<tr>
<td>DAAC 1317 Basic Counseling Skills</td>
<td>3</td>
</tr>
<tr>
<td>DAAC 2354 Dynamics of Group Counseling</td>
<td>3</td>
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</table>
## Human Services AAS Degree (Substance Abuse Counseling Track)

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<tbody>
<tr>
<td>DAAC 1311</td>
<td>Counseling Theories</td>
<td>3</td>
</tr>
<tr>
<td>DAAC 2341</td>
<td>Counsel Alcohol &amp; Drug Addictions</td>
<td>3</td>
</tr>
<tr>
<td>DAAC 1304</td>
<td>Pharmacology of Addiction</td>
<td>3</td>
</tr>
<tr>
<td>DAAC 1319</td>
<td>Intro to Alcohol &amp; Drug Addictions</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 1301</td>
<td>Composition &amp; Rhetoric I</td>
<td>3</td>
</tr>
<tr>
<td>PSYC 2301</td>
<td>General Psychology</td>
<td>3</td>
</tr>
<tr>
<td>SOCI 1301</td>
<td>Principles of Sociology</td>
<td>3</td>
</tr>
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<td>KINE</td>
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### SECOND YEAR

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<tr>
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<tr>
<td>DAAC 1309</td>
<td>Assessment Alcohol/Drug Addictions</td>
<td>3</td>
</tr>
<tr>
<td>CMSW 1309</td>
<td>Problems of Children &amp; Adolescents</td>
<td>3</td>
</tr>
<tr>
<td>OR</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CMSW 1353</td>
<td>Behavior Modification</td>
<td>3</td>
</tr>
<tr>
<td>ITSC 1401</td>
<td>Introduction to Computers</td>
<td>4</td>
</tr>
<tr>
<td>COSC 1401</td>
<td>Introduction to Computing</td>
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<tr>
<td>GOVT 2305</td>
<td>Federal Government</td>
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<td>GOVT 2306</td>
<td>Texas Government</td>
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<tr>
<td>Humanities/Fine Arts Elective</td>
<td>1</td>
<td>3</td>
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<tr>
<td>Math/Natural Science Elective</td>
<td>2</td>
<td>3-4</td>
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<tr>
<td>SPCH Elective</td>
<td>(SPCH 1311, 1315, 1318, 1321)</td>
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</tr>
<tr>
<td>DAAC 2360</td>
<td>Clinical - Alcohol/Drug Counseling</td>
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</tr>
<tr>
<td>Academic Elective</td>
<td>4</td>
<td>3</td>
</tr>
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</table>

**TOTAL Credits for Human Services AAS Degree**

62-63

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1. Refer to the catalog for associate of applied science degree requirements and a list of approved courses.
2. Students should consult their prospective senior institution’s catalog for science, math, and speech requirements.
3. Capstone course; Students may also take DAAC 2161 and DAAC 2260 to fulfill the capstone requirement, as long as a total of 3 credit hours are successfully completed.
4. See core course requirements for options.

---

**Page 164**

In the degree plan for LOGISTICS MANAGEMENT, the following text has been revised (11/13) effective spring 2014:

### LOGISTICS MANAGEMENT

Associate of Applied Science degree

[AAS_LOMT degree offered at LSC-CyFair]

<table>
<thead>
<tr>
<th>FIRST YEAR</th>
<th>Credit</th>
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</thead>
<tbody>
<tr>
<td>ENGL 1301</td>
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</tr>
<tr>
<td>TECM 1303</td>
<td>3</td>
</tr>
<tr>
<td>LMGT 1319</td>
<td>3</td>
</tr>
<tr>
<td>LMGT 1425</td>
<td>4</td>
</tr>
<tr>
<td>ITSC 1401</td>
<td>4</td>
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<tr>
<td>COSC 1401</td>
<td>4</td>
</tr>
<tr>
<td>BCIS 1405</td>
<td>3</td>
</tr>
<tr>
<td>LMGT 1345</td>
<td>3</td>
</tr>
<tr>
<td>ACCT 2401</td>
<td>4</td>
</tr>
<tr>
<td>Elective1</td>
<td>3-4</td>
</tr>
<tr>
<td>GEOG 1303</td>
<td>3</td>
</tr>
<tr>
<td>KINE</td>
<td>1</td>
</tr>
<tr>
<td>LMGT 1321</td>
<td>3</td>
</tr>
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</table>

<table>
<thead>
<tr>
<th>SECOND YEAR</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>BMGT 1301</td>
<td>3</td>
</tr>
<tr>
<td>LMGT 2434</td>
<td>4</td>
</tr>
<tr>
<td>LMGT 1323</td>
<td>3</td>
</tr>
<tr>
<td>Elective2</td>
<td>3</td>
</tr>
<tr>
<td>BMGT 2303</td>
<td>3</td>
</tr>
<tr>
<td>BMGT 1309</td>
<td>3</td>
</tr>
<tr>
<td>LMGT 1393</td>
<td>3</td>
</tr>
<tr>
<td>BMGT 2382</td>
<td>3</td>
</tr>
<tr>
<td>Elective3</td>
<td>3</td>
</tr>
</tbody>
</table>

Note: Students must meet TSI requirements. See LoneStar.edu/TSI for details.
The above text is replaced with the following (11/13) effective spring 2014:

LOGISTICS MANAGEMENT
Associate of Applied Science degree

| AAS_LOMT degree offered at LSC-CyFair |

FIRST YEAR

Credit

FIRST SEMESTER
- LMGT 1319 Introduction to Business Logistics 3
- LMGT 1321 Introduction to Materials Handling 3
- LMGT 1425 Warehouse and Distribution Center Management 4
- BMGT 1301 Supervision 3
- BMGT 2303 Problem Solving & Decision Making 3

SECOND SEMESTER
- LMGT 1345 Economics of Transportation & Distribution 3
- GEOG 1303 World Geography 3
- ENGL 1301 Composition & Rhetoric I 3
- TECM 1303 Technical Calculations 3
- KINE Any physical activity course 1
- ITSC 1401 Introduction to Computers OR
- COSC 1401 Introduction to Computers OR
- BCIS 1405 Business Computer Applications

SECOND YEAR

Credit

FIRST SEMESTER
- LMGT 1323 Domestic and International Transportation Management 3
- LMGT 1393 ST: Logistics & Materials Mgmt 3
- BMGT 1309 Information and Project Mgmt 3
- Math/Science Elective 2 3 – 4
- LMGT 2434 Principles of Traffic Management 4

SECOND SEMESTER
- BMGT 2382 Co-op Business Administration I 3
- Elective Humanities/Fine Arts 3
- Spanish Elective 3
- SPCH Elective 3
- ACCT 2401 Principles Of Accounting I 4
- SPEECH ELECTIVES
- SPCH 1311 Introduction To Communication 3
- SPCH 1315 Public Speaking 3
- SPCH 1318 Interpersonal Communication 3
- SPCH 1321 Business and Professional Communication 3

TOTAL Credit Hours for AAS Degree 65-66

1 Meets multicultural requirement
2 See core requirements for AAS degree for options. If science option is chosen, math competency must be met (MATH 0308 or higher).
3 Capstone course

The following certificate outline was added (9/13) effective spring 2014:

COMPUTED TOMOGRAPHY ADVANCED TECHNOLOGY CERTIFICATE
(certificate offered at LSC–Montgomery, admission requirements exist)
### Page 172

The course outline for Magnetic Resonance Imaging Advanced Technical Certificate has been revised (11/13). It now reads:

**FIRST YEAR**

**FIRST SEMESTER**
- RADR 2340 Sectional Anatomy for Medical Imaging 3
- MRIT 2260 Clinical-Radiologic Technology/Science 2
- MRIT 2330 Principles of Magnetic Resonance Imaging 3

**SECOND SEMESTER**
- MRIT 2360 Clinical Magnetic Resonance Tech 3
- MRIT 2355 Magnetic Resonance Imaging Physics 3

**THIRD SEMESTER**
- MRIT 2334 Magnetic Resonance Equipment and Methodology 3
- MRIT 2361 Clinical Magnetic Resonance Tech 3

**TOTAL Credit Hours for Magnetic Resonance Imaging ATC** 20

### Page 174

The following text was deleted (01/14) effective spring 2014:

Additionally, in the last semester of the curriculum, students will take a standardized exit exam in order to graduate from the program.

### Page 179

In the course outline for NURSING SPECIALIZATION (INTEGRATED CURRICULUM), the following text was removed (10/13) effective spring 2014:

- RNSG 1129 Nursing Skills II 1

In the course outline for NURSING SPECIALIZATION (INTEGRATED CURRICULUM), the following text was added (10/13) effective spring 2014:

- RNSG 1229 Integrated Nursing Skills II 2

### Page 180

In the course outline for TRANSITION TO PROFESSIONAL NURSING FOR ARTICULATING STUDENTS, the following text was removed (11/13) effective spring 2014:

- RNSG 1417 Concepts of Professional Nursing 4
Practice I for Articulating Students

In the course outline for TRANSITION TO PROFESSIONAL NURSING FOR ARTICULATING STUDENTS, the following text was added (11/13) effective spring 2014:

RNSG 1517 Concepts of Professional Nursing 5

In the course outline for TRANSITION TO PROFESSIONAL NURSING FOR ARTICULATING STUDENTS, the following text was removed (11/13) effective spring 2014:

RNSG 2173 Advanced Nursing Skills 1

In the course outline for TRANSITION TO PROFESSIONAL NURSING FOR ARTICULATING STUDENTS, the following text was removed (11/13) effective spring 2014:

TOTAL Credit Hours Transition to Professional Nursing AAS 60

In the course outline for VOCATIONAL NURSING ADN TO VN CERTIFICATE, the following text was removed (10/13) effective spring 2014:

RNSG 1129 Nursing Skills II 1

In the course outline for VOCATIONAL NURSING ADN TO VN CERTIFICATE, the following text was added (10/13) effective spring 2014:

RNSG 1229 Integrated Nursing Skills II 2

In the course outline for TRANSITION TO PROFESSIONAL NURSING FOR ARTICULATING STUDENTS, the following text was added (11/13) effective spring 2014:

TOTAL Credit Hours Transition to Professional Nursing AAS 60

Between pages 189 and 190
The following text and programs were added (12/13) effective summer 2014:

POLYSOMNOGRAPHY

General Guidelines
Upon acceptance into the program, students must submit a record of current immunizations required by the Texas Department of Health. Criminal background checks may be required by clinical facilities. The background check will be processed through the Federal Bureau of Investigations (FBI).

Completion of the polysomnography program does not guarantee eligibility to take the RPSGT exam administered by the Board of Registered Polysomnographic Technologists (BRPT). The BRPT will consider individuals with histories of conviction; mental illness and/or chemical dependency on an individual basis after submitted applications are reviewed and determine if the applicant meets required qualifications.

Admissions Criteria
The polysomnography program is planning to begin the program with the first cohort in the summer or fall of 2014. Prerequisite courses must be completed one semester prior to the semester in which the student wishes to begin the program. In addition to the system admissions requirements, the following are requirements for the polysomnography program:

Program Application Instructions
1. Minimum age of 18.
2. Graduation from high school verified with high school transcript or GED certificate verified by a copy of the certificate.
3. Complete TSI requirements: complete ENGL 0305 AND 0307 OR ENGL 0309 AND MATH 0310 with eligibility to enter ENGL 1301 and college-level MATH. To determine your status, see a college advisor.
4. College placement exam results.
5. Complete fourteen (14) semester hours of college level course work including: ENGL 1301, BIOL 2401 and 2402, and PSYC 2301 with a minimum grade point average of 2.5 or higher.
6. Submit official transcripts from all colleges attended other than LSCS. Submit these documents
directly to the polysomnography department at LSC-Kingwood.
7. Complete Health Sciences Reasoning Test (HSRT).
8. Complete and submit an application to the polysomnography program.
9. Submit an essay written on why the individual wishes to enter the field of polysomnography.
10. Submit an advising profile directly to the polysomnography department at LSC-Kingwood.
11. Application and all required documents must be submitted before the specified application deadlines. College eligibility information may be obtained from the counseling office 281.312.1604.

Student Selection
1. Admission is limited to fifteen (15) students.
2. Students are ranked and selected by the admissions committee using the following criteria:
   a. Scoring of all academic courses applying to the degree plan using a numeric scale
   b. Completion of previous degrees
   c. HSRT scores
   d. Essay
   e. Points are deducted for retakes of academic courses.

Pre-Admission
1. A physical examination report with laboratory tests and immunization records signed by a licensed healthcare provider within six weeks of the first class day is required. This form will be provided upon acceptance into the program.
2. Hepatitis B vaccination is required for all admissions to the polysomnography program. The enrolling student must complete the series of three vaccinations prior to entering the clinical practicum in the hospital/outpatient setting.
3. All students must complete background checks prior to entering the polysomnography program. Drug testing will also be completed prior to entering clinical affiliates which require mandatory drug testing. Contact the department for information at 281.312.1708.
4. Attendance at a mandatory orientation session, after student selection is complete, will be scheduled prior to the first class meeting.

The following text and programs were added (7/13) effective spring 2014:

(AWAITING THECB APPROVAL)

POLYSOMNOGRAPHIC TECHNOLOGIST CERTIFICATE LEVEL 2 CERTIFICATE
(offered at LSC-Kingwood)

PREREQUISITE SEMESTER
ENGL 1301 Composition & Rhetoric I 3
BIOL 2401 Human Anatomy & Physiology I 4
BIOL 2402 Human Anatomy & Physiology II 4
PSYC 2301 General Psychology 3

FIRST YEAR
FIRST SEMESTER
PSGT 1115 Introduction to Polysomnography 1
PSGT 1305 Neurophysiology of Sleep 3
PSGT 1400 Polysomnography I 4
PSGT 1310 Neuroanatomy & Physiology 3
PSGT 1340 Sleep Disorders 3
SECOND SEMESTER
PSGT 1260 Polysomnography Clinical I 2
PSGT 2205 Sleep Scoring & Staging 2
PSGT 2411 Polysomnography II 4
RSPT 1310 Respiratory Care Procedures I 3

SECOND YEAR
## FIRST SEMESTER
- **RSPT 2139** Advanced Cardiac Life Support 1
- **PSGT 1360** Polysomnography Clinical II 3
- **PSGT 2250** Infant Pediatric Polysomnography 2

## SECOND SEMESTER
- **PSGT 2661** Polysomnography Clinical III 6
- **PSGT 1291** Special Topics 2

**TOTAL Credit Hours for Polysomnographic Technologist Certificate Level 2 Certificate** 53

1 Capstone course

## ADVANCED POLYSOMNOGRAPHIC TECHNOLOGIST CERTIFICATE (AWAITING THECB APPROVAL)
[offered at LSC-Kingwood]

**PREREQUISITE SEMESTER**
Student must have an associate of applied science degree or higher in a health occupations field. In addition, the student must have the appropriate, current credential for their occupation.

### FIRST YEAR

**FIRST SEMESTER**
- **PSGT 1115** Introduction to Polysomnography 1
- **PSGT 1305** Neurophysiology of Sleep 3
- **PSGT 1400** Polysomnography I 4
- **PSGT 1310** Neuroanatomy & Physiology 3
- **PSGT 1340** Sleep Disorders 3

**SECOND SEMESTER**
- **PSGT 1160** Polysomnography Clinical I 1
- **PSGT 2205** Sleep Scoring & Staging 2
- **PSGT 2411** Polysomnography II 4
- **RSPT 1310** Respiratory Care Procedures I 3

### THIRD SEMESTER
- **RSPT 2139** Advanced Cardiac Life Support 1
- **PSGT 1360** Polysomnography Clinical II 3
- **PSGT 2250** Infant Pediatric Polysomnography 2

### SECOND YEAR

**FIRST SEMESTER**
- **PSGT 2661** Polysomnography Clinical III 6
- **PSGT 1291** Special Topics 2

**TOTAL Credit Hours for Advanced Polysomnographic Technologist Certificate** 38

1 Capstone course

## POLYSOMNOGRAPHY (AWAITING THECB APPROVAL)
Associate of Applied Science degree
(AAS_PSGT degree offered at LSC-Kingwood)

**PREREQUISITE SEMESTER**
- **ENGL 1301** Composition & Rhetoric I 3
- **BIOL 2401** Human Anatomy & Physiology I 4
- **BIOL 2402** Human Anatomy & Physiology II 4
- **PSYC 2301** General Psychology 3

### FIRST YEAR

**FIRST SEMESTER**
- **PSGT 1115** Introduction to Polysomnography 1
- **PSGT 1305** Neurophysiology of Sleep 3
- **PSGT 1400** Polysomnography I 4
- **PSGT 1310** Neuroanatomy & Physiology 3
- **PSGT 1340** Sleep Disorders 3
- **KINE Elective** Any Physical Activity Course 1

**SECOND SEMESTER**
- **PSGT 1260** Polysomnography Clinical I 2
PSGT 2205  Sleep Scoring & Staging  2
PSGT 2411  Polysomnography II  4
RSPT 1310  Respiratory Care Procedures I  3

SECOND YEAR

FIRST SEMESTER
RSPT 2139  Advanced Cardiac Life Support  1
PSGT 1360  Polysomnography Clinical II  3
PSGT 2250  Infant Pediatric Polysomnography  2
SPCH 1318  Interpersonal Communication  3
Humanities/Fine Arts Elective 1  3

SECOND SEMESTER
PSGT 2661  Polysomnography Clinical III  6
PSGT 1291  Special Topics  2

TOTAL Credit Hours for Polysomnography
AAS Degree 60
1 Select a course from the AAS core that meets the multicultural requirement
2 Capstone course

Page 203
The following text was added (11/13) effective spring 2014:

ACNT 1391 - SPECIAL TOPICS IN FRAUD INVESTIGATION
3 Credits (3 hrs. lec.) A study of the identification, detection, investigation, and prevention of financial fraud. Topics address recently identified current events, skills, knowledge, and/or attitudes and behaviors pertinent to the technology or occupation and relevant to the professional development of the student. This course meets the qualifying educational credit required for the CPA examination and is part of the Accounting Advanced Technical Certificate (ATC). Prerequisite: ACCT 2402

Page 210
The following text was revised:

ARTS 2346 - CERAMICS I
3 Credits (2 hrs. lec., 4 hrs. lab.) An introduction to ceramics processes through the study of basic materials and techniques. Includes hand building, the use of the potter’s wheel, glazing and firing techniques. (5007115126) Prerequisites: ENGL 0305 or ENGL 0365 or ENGL 0307 or ENGL 0375 or ENGL 0117 OR higher level course (ENGL 1301) OR placement by testing. ENGL 0309 or ENGL 0310 also meets prerequisite

The above text should now read as follows (effective 11/13) effective spring 2014:

ARTS 2346 - CERAMICS I
3 Credits (2 hrs. lec., 4 hrs. lab.) Exploration of ideas using basic ceramic processes. An introduction to ceramics that examines the historical and cultural significance of the ceramic arts through research and application of various construction methods and firing processes. Prerequisites: ENGL 0305 or ENGL 0365 AND ENGL 0307 or ENGL 0375 or ENGL 0117 or higher level course (ENGL 1301) OR placement by testing.

Page 215
In the description of BIOL 2305 - Pathophysiology, the following text was deleted (11/13) effective spring 2014:

AND departmental approval

Page 219
The following text in the CETT 1402 description was deleted (1/14) effective summer 2014:
Prerequisites: ENGL 0305 or ENGL 0365 or ENGL 0115 AND ENGL 0307 or ENGL 0375 or ENGL 0117 OR higher level course (ENGL 1301) OR placement by testing. ENGL 0309 or ENGL 0310 also meets prerequisite

The following text in the CETT 1402 description was added (1/14) effective summer 2014:
Prerequisite: None.

The following text in the CETT 1409 description was deleted (8/13) effective fall 2013:
Not intended for Engineering Technology A.A.S. majors.

Page 228

The following text was added (11/13 effective spring 2014):

CTMT 2232 - PRINCIPLES OF COMPUTED TOMOGRAPHY
2 Credits (2 hrs. lec.) In-depth coverage of computed tomography imaging techniques. Image quality assurance and radiation protection are emphasized. Prerequisites: Departmental approval and Admission to the Computed Tomography Advanced Technical Certificate program.

CTMT 2336 - COMPUTED TOMOGRAPHY EQUIPMENT AND METHODOLOGY
3 Credits (3 hrs. lec.) Skill development in the operation of computed tomographic equipment, focusing on routine protocols, image quality, quality assurance, and radiation protection. Prerequisite: Departmental approval.

CTMT 2460 - CLINICAL - RADIOLOGIC TECHNOLOGY/SCIENCE - RADIOGRAPHER
4 Credits (15 hrs. ext.) A health-related work-based learning experience that enables the student to apply specialized occupational theory, skills, and concepts. Direct supervision is provided by the clinical professional. Prerequisites: Departmental approval and Admission to the Computed Tomography Advanced Technical Certificate program.

CTMT 2461 CLINICAL - RADIOLOGIC TECHNOLOGY/SCIENCE - RADIOGRAPHER
4 Credits (15 hrs. ext.) A health-related work-based learning experience that enables the student to apply specialized occupational theory, skills, and concepts. Direct supervision is provided by the clinical professional. Prerequisite: Admission to LSCS’s Computed Tomography Advanced Technical Certificate program.

Page 231

The following course and course description was added (11/13) effective spring 2014:

DEMR 1229 - PREVENTATIVE MAINTENANCE
2 Credits (2 hrs. lec.) An introductory course designed to provide the student with basic knowledge of proper servicing practices. Content includes record keeping and condition of major systems. Prerequisites: None

DEMR 1301 - SHOP SAFETY AND PROCEDURES
3 Credits (3 hrs. lec.) A study of shop safety, rules, basic shop tools, and test equipment. Prerequisites: None

DEMR 1305 - BASIC ELECTRICAL SYSTEMS
3 Credits (2 hrs. lec., 3 hrs. lab.) Basic principles of electrical systems of diesel powered equipment with emphasis on starters, alternators, and batteries. Prerequisites: None

DEMR 1306 - DIESEL ENGINE I
3 Credits (3 hrs. lec.) An introduction to the basic principles of diesel engines and systems. Prerequisites: None

DEMR 1310 - DIESEL ENGINE TESTING AND REPAIR I
3 Credits (2 hrs. lec., 3 hrs. lab.) An introduction to testing and repairing diesel engines including related systems and specialized tools. Prerequisites: None

DEMR 1313 - FUEL SYSTEMS
3 Credits (2 hrs. lec., 3 hrs. lab.) In-depth coverage of fuel injector pumps and injection systems. Prerequisites: None

DEMR 1316 - BASIC HYDRAULICS
3 Credits (2 hrs. lec., 3 hrs. lab.) Fundamentals of hydraulics including components and related systems. Prerequisites: None

DEMR 1317 - BASIC BRAKE SYSTEMS
3 Credits (3 hrs. lec.) Basic principles of brake systems of diesel powered equipment. Emphasis on maintenance, repairs, and troubleshooting. Prerequisites: None

DEMR 1321 - POWER TRAIN I
3 Credits (3 hrs. lec.) Fundamental repair and theory of power trains including clutches, transmissions, drive shafts, and differentials. Emphasis on inspection and repair. Prerequisites: None

DEMR 1323 - HEATING, VENTILATION, AND AIR CONDITIONING TROUBLESHOOTING AND REPAIR
3 Credits (2 hrs. lec., 3 hrs. lab.) Introduction to heating, ventilation, and air conditioning theory, testing, and repair. Emphasis on refrigerant reclamation, safety procedures, specialized tools, and repairs. Prerequisites: None

DEMR 1349 - DIESEL ENGINE II
3 Credits (2 hrs. lec., 3 hrs. lab.) An in-depth coverage of disassembly, repair, identification, evaluation, and reassembly of diesel engines. Prerequisite: DEMR 1306

DEMR 2312 - DIESEL ENGINE TESTING AND REPAIR II
3 Credits (2 hrs. lec., 3 hrs. lab.) Continuation of Diesel Engine Testing and Repair I. Coverage of testing and repairing diesel engines including related systems and specialized tools. Prerequisite: DEMR 1310

DEMR 2332 - ELECTRONIC CONTROLS
3 Credits (2 hrs. lec., 3 hrs. lab.) Advanced skills in diagnostic and programming techniques of electronic control systems. Prerequisites: None

DEMR 2334 - ADVANCED DIESEL TUNE-UP AND TROUBLESHOOTING
3 Credits (2 hrs. lec., 3 hrs. lab.) Advanced concepts and skills required for tune-up and troubleshooting procedures
of diesel engines. Emphasis on the science of diagnostics with a common sense approach. Prerequisite: DEMR 1349

DEMR 2380 - COOPERATIVE EDUCATION - DIESEL MECHANICS TECH
3 Credits (1 hr. lec., 15 hrs. ext.) Career-related activities encountered in the student’s area of specialization offered through an individualized agreement among the college, employer, and student. Under the supervision of the college and the employer, the student combines classroom learning with work experience. Includes a lecture component. Prerequisites: Department approval

DEMR 2381 - COOPERATIVE EDUCATION - DIESEL MECHANICS TECH
3 Credits (1 hr. lec., 15 hrs. ext.) Career-related activities encountered in the student’s area of specialization offered through an individualized agreement among the college, employer, and student. Under the supervision of the college and the employer, the student combines classroom learning with work experience. Includes a lecture component. Prerequisites: Department approval

Page 236
The title of DRAM 1310 was changed (11/13, effective fall 2013) to :
THEATRE APPRECIATION

Page 238
The title of DRAM 2366 was changed (11/13, effective fall 2013) to:
FILM APPRECIATION

Page 244
The following course and course description has been added (11/13) effective fall 2013:
ENGL 0119 - NON-SEMESTER LENGTH COMPETENCY-BASED ADVANCED READING/WRITING OPTION
1 Credit (1 hr. lab.) Integration of critical reading and academic writing skills. Prerequisite: A placement score below college-level reading and/or college-level writing but within a designated range.

Page 249
In the course description for ENGR 1201 - INTRODUCTION TO ENGINEERING, the following text has been revised (10/13) effective spring 2014:
An introduction to the field of engineering. Students will learn about engineering careers, teamwork, engineering design, success in college, the teaching and learning process, and professional development. The class will also serve to prepare students for more advanced engineering coursework. (1401015110) Prerequisites: ENGL 0305 or ENGL 0365 or ENGL 0115 AND ENGL 0307 or ENGL 0375 or ENGL 0117 OR higher level course (ENGL 1301) OR placement by testing. ENGL 0309 or ENGL 0310 also meets prerequisite

The above text is replaced with the following (10/13) effective spring 2014:
An introduction to the engineering profession with emphasis on technical communication and team-based engineering design. Prerequisites: ENGL 0305 or ENGL 0365 AND ENGL 0307 or ENGL 0375 or higher level course (ENGL 1301) or placement by testing

The course ENGR 1304 - FOUNDATIONS OF ENGINEERING I has been renamed ENGINEERING GRAPHICS I. In the course description, the following text has been revised (10/13) effective spring 2014:
Introduction to the engineering profession, ethics and disciplines; development of skills in teamwork; problem solving, logic processing, design and drawing; emphasis on computer applications and CAD tools. (1513015111) Prerequisite: MATH 2412; Corequisite: ENGL 1301

The above text is replaced with the following (10/13) effective spring 2014:
Introduction to computer-aided drafting using CAD software and sketching to generate two- and three-dimensional drawings based on the conventions of engineering graphical communication; topics include spatial relationships, multi-view projections and sectioning, dimensioning, graphical presentation of data, and fundamentals of computer graphics. Prerequisite: MATH 1314

The course 2301 - ENGINEERING MECHANICS I has been renamed ENGINEERING MECHANICS: STATICS. In the course description, the following text has been revised (10/13) effective spring 2014:
Statics of particles and rigid bodies, free body diagrams, centroids, center of gravity and distributed loads, structural analysis of trusses and frames, internal forces and moments in beams and cables, friction, moments of inertia. (1411015121) Prerequisites: PHYS 2425 and MATH 2414

Lone Star College System 2013-2014 Catalog Addendum 28
The above text is replaced with the following (10/13) effective spring 2014:
Basic theory of engineering mechanics, using calculus, involving the description of forces, moments, and couples acting on stationary engineering structures; equilibrium in two and three dimensions; free-body diagrams; friction; centroids; centers of gravity; and moments of inertia. Prerequisites: PHYS 2425 Corequisites: MATH 2414 unless course has already been taken.

The following course and course description was added (10/13) effective fall 2013:
ENGRI 2302 - ENGINEERING MECHANICS: DYNAMICS
3 Credits (3 hrs. lec.) Basic theory of engineering mechanics, using calculus, involving the motion of particles, rigid bodies, and systems of particles; Newton’s Laws; work and energy relationships; principles of impulse and momentum; application of kinetics and kinematics to the solution of engineering problems. Prerequisite: ENGR 2301

The following course and course description was added (10/13) effective spring 2014:
ENGRI 2304 - PROGRAMMING FOR ENGINEERS
3 Credits (2 hrs. lec., 4 hrs. lab.) Programming principles and techniques for matrix and array operations, equation solving, and numeric simulations applied to engineering problems and visualization of engineering information; platforms include spreadsheets, symbolic algebra packages, engineering analysis software, and laboratory control software. Prerequisites: ENGL 0305 and ENGL 0307 or ENGL 0356 or higher level course (ENGL 1301) or placement by testing. Corequisites: MATH 241

The following course and course description was added (10/13) effective spring 2014:
ENGRI 2405 - ELECTRICAL CIRCUITS I
3 Credits (3 hrs. lec.) Principles of electrical circuits and systems. Basic circuit elements (resistance, inductance, mutual inductance, capacitance, independent and dependent controlled voltage, and current sources). Topology of electrical networks; Kirchhoff’s laws; node and mesh analysis; DC circuit analysis; operational amplifiers; transient and sinusoidal steady-state analysis; AC circuit analysis; first- and second-order circuits; Bode plots; and use of computer simulation software to solve circuit problems. Laboratory experiments supporting theoretical principles involving DC and AC circuit theory, network theorems, time, and frequency domain circuit analysis. Introduction to principles and operation of basic laboratory equipment; laboratory report preparation. (14100151 10). Prerequisites: PHYS 2425 and MATH 2414 and MATH 2320. Corequisites: MATH 2320

Page 250
The following text in the FCEL 1302 description was deleted (1/14) effective summer 2014:
Prerequisites: ENGL 0305 or ENGL 0365 or ENGL 0115 AND ENGL 0307 or ENGL 0375 or ENGL 0117 OR higher level course (ENGL 1301) OR placement by testing. ENGL 0309 or ENGL 0310 also meets prerequisite; MATH 0306

The following text in the FCEL 1302 description was added (1/14) effective summer 2014:
Prerequisite: None.

Page 251
The following course and course description was added (10/13) effective spring 2014:
FIRT 1391 - SPECIAL TOPICS: BASIC WILDLAND FIREFIGHTING
3 Credits (3 hrs. lec.) Terminology and techniques used in wildland firefighting. Includes wildfire suppression, fire behaviors, mop-up techniques and benefits, safety, and incident management systems. Prerequisite: None.

Page 252
The following course and course description was added (11/13) effective fall 2013:
FIRT 1391 - SPECIAL TOPICS: BASIC WILDLAND FIREFIGHTING
3 Credits (3 hrs. lec.) Terminology and techniques used in wildland firefighting. Includes wildfire suppression, fire behaviors, mop-up techniques and benefits, safety, and incident management systems. Prerequisite: None.

Page 264
The credit hours for HITT 1355 have been revised (11/13) effective fall 2013. They should now read:
3 Credits (2 hrs. lec., 2 hr. lab.)
The following text was added (8/13) effective fall 2013:

**ITCC 1475 - INTRODUCTION TO NETWORKS**
4 Credits (3 hrs. lec., 2 hrs. lab.) Introduce the architecture, structure, functions, components, and models of the Internet and other computer networks. The principles and structure of IP addressing and the fundamentals of Ethernet concepts, media, and operations are introduced to provide a foundation for the curriculum. By the end of the course, students will be able to build simple LANs, perform basic configurations for routers and switches, and implement IP addressing schemes. Prerequisites: ITSC 1401 or COSC 1401

**ITCC 1476 - ROUTING AND SWITCHING ESSENTIALS**
4 Credits (3 hrs. lec., 2 hrs. lab.) This course describes the architecture, components, and operations of routers and switches in a small network. Students learn how to configure a router and a switch for basic functionality. By the end of this course, students will be able to configure and troubleshoot routers and switches and resolve common issues with RIPv1, RIPv2, single area and multi-area OSPF, virtual LANs, and inter-VLAN routing in both IPv4 and IPv6 networks. Prerequisites: ITCC 1401 or COSC 1401 and ITCC 1475

The following text was added (8/13) effective fall 2013:

**ITCC 2478 – SCALING NETWORKS**
4 Credits (3 hrs. lec., 2 hrs. lab.) This course describes the architecture, components, and operations of routers and switches in a larger and more complex network. Students learn how to configure routers and switches for advanced functionality. By the end of this course, students will be able to configure and troubleshoot routers and switches and resolve common issues with OSPF, EIGRP, STP, and VTP in both IPv4 and IPv6 networks. Students will also develop the knowledge and skills needed to implement DHCP and DNS operations in a network. Prerequisites: ITSC 1401 or COSC 1341 and ITCC 1475 and ITCC 1476

**ITCC 2479 - CONNECTING NETWORKS**
4 Credits (3 hrs. lec., 2 hrs. lab.) This course discusses the WAN technologies and network services required by converged applications in a complex network. The course enables students to understand the selection criteria of network devices and WAN technologies to meet network requirements. Students learn how to configure and troubleshoot network devices and resolve common issues with data link protocols. Students will also develop the knowledge and skills needed to implement IPSec and virtual private network (VPN) operations in a complex network. Prerequisites: ITSC 1401 or COSC 1401 and ITCC 1475 and ITCC 1476 and ITCC 2478

The following course and course description was added (11/13) effective spring 2014:

**ITSE 2453 - ADVANCED C# PROGRAMMING**
4 Credits (3 hrs. lec., 2 hrs. lab.) Continuation of C# programming using advanced features of the .NET Framework Class Library. Prerequisite: ITSE 1430

The following course and course description was added (10/13) effective spring 2014:

**JAPN 2312 - INTERMEDIATE JAPANESE II**
3 Credits (3 hrs. lec.) This course is a continuation of JAPN 2311, with emphasis on works by Japanese-speaking authors. Continued reinforcement of grammatical principles and development of writing skills are stressed. Prerequisites: JAPN 2311 or instructor approval

The following text in the LMGT 1319 description was deleted (1/14) effective summer 2014:
Prerequisites: ENGL 0305 or ENGL 0365 or ENGL 0115 AND ENGL 0307 or ENGL 0375 or ENGL 0117 OR higher level course [ENGL 1301] OR placement by testing. ENGL 0309 or ENGL 0310 also meets prerequisite

The following text in the LMGT 1319 description was added (1/14) effective summer 2014:
Prerequisite: None.

The following text in the LMGT 1321 description was deleted (1/14) effective summer 2014:
Prerequisites: ENGL 0305 or ENGL 0365 or ENGL 0115 AND ENGL 0307 or ENGL 0375 or ENGL 0117 OR higher level course [ENGL 1301] OR placement by testing. ENGL 0309 or ENGL 0310 also meets prerequisite

The following text in the LMGT 1321 description was added (1/14) effective summer 2014:
Prerequisite: None.

The following text in the LMGT 1425 description was deleted (1/14) effective summer 2014:
Prerequisites: ENGL 0305 or ENGL 0365 or ENGL 0115 AND ENGL 0307 or ENGL 0375 or ENGL 0117 OR higher
The following text in the LMGT 1425 description was added (1/14) effective summer 2014:
Prerequisite: None.

Page 292
The course description for MATH 1342 – STATISTICS was revised (10/13) effective spring 2014. The following text has been revised:
3 Credits [3 hrs. lec.]
The text above is replaced with the text below:
3 Credits (Offered as 3 hr. lec OR 3 hrs. lec. 1 hr. lab options by college)
The following text has been revised:
Prerequisites: MATH 1314
The text above is replaced with the text below:
Prerequisites: MATH 0309 or 0310

Page 293
The following text in the MCHN 1302 description was deleted (1/14) effective summer 2014:
Prerequisite: MATH 0310; ENGL 0305 or ENGL 0365 or ENGL 0115 AND ENGL 0307 or ENGL 0375 or ENGL 0117 OR higher level course (ENGL 1301) OR placement by testing. ENGL 0309 or ENGL 0310 also meets prerequisite
The following text in the MCHN 1302 description was added (1/14) effective summer 2014:
Prerequisite: None

Page 294
The following text in the MCHN 1343 description was deleted (1/14) effective summer 2014:
Prerequisite: Departmental approval
The following text in the MCHN 1343 description was added (1/14) effective summer 2014
Prerequisite: None

Page 297
The following course and course description has been added (11/13) effective fall 2013:
MRIT 2260 - CLINICAL-RADIOLOGIC TECHNOLOGY/SCIENCE
2 Credits (6 hrs. ext.) A health-related work-based learning experience that enables the student to apply specialized occupational theory, skills, and concepts. Direct supervision is provided by the clinical profession. Requires LSCS liability insurance. Prerequisite: Departmental approval

Page 305
The following text in the NDT 2311 description was deleted (1/14) effective summer 2014:
Prerequisites: ENGL 0305 or ENGL 0365 or ENGL 0115 AND ENGL 0307 or ENGL 0375 or ENGL 0117 OR higher level course [ENGL 1301] OR placement by testing. ENGL 0309 or ENGL 0310 also meets prerequisite
The following text in the NDT 2311 description was added (1/14) effective summer 2014:
Prerequisite: None

The following text in the NDT 2401 description was deleted (1/14) effective summer 2014:
Prerequisites: ENGL 0305 or ENGL 0365 or ENGL 0115 AND ENGL 0307 or ENGL 0375 or ENGL 0117 OR higher level course [ENGL 1301] OR placement by testing. ENGL 0309 or ENGL 0310 also meets prerequisite
The following text in the NDT 2401 description was added (1/14) effective summer 2014:
Prerequisite: None

Page 307
PHIL 2307 - SOCIAL AND POLITICAL PHILOSOPHY has been renamed INTRODUCTION TO SOCIAL AND POLITICAL PHILOSOPHY (9/13) effective spring 2014
PHIL 2316 - HISTORY OF CLASSICAL & MODERN PHILOSOPHY I has been renamed CLASSICAL PHILOSOPHY (9/13) effective spring 2014
PHIL 2317 - HISTORY OF CLASSICAL & MODERN PHILOSOPHY II has been renamed 17TH AND 18TH CENTURY PHILOSOPHY (9/13) effective spring 2014
Page 310
In the description for the course PHYS 1403 - STELLAR ASTRONOMY, the following text was changed (9/13) effective spring 2014:

An appropriate laboratory program will include real-time telescope observations, field trips and experience with more advanced observing techniques.

The above text should now read as follows:

An appropriate laboratory program may include real-time telescope observations, field trips and experience with more advanced observing techniques.

Page 313
The following course description was added (9/13) effective spring 2014:

PSGT 1160 - POLYSOMNOGRAPHY CLINICAL I
1 Credit. (6 hrs. ext.) A health-related work-based learning experience that enables the student to apply specialized occupational theory, skills, and concepts. Direct supervision is provided by the clinical professional. Prerequisites: PSGT 1115 and PSGT 1305 and PSGT 1400 and PSGT 1310 and PSGT 1340

The following course descriptions were added (11/13):

PSG 1115 - INTRO TO POLYSOMNOGRAPHY
1 Credits. (3 hrs. lab.) Introduction to the history of sleep medicine and the role of the technologist in current practice settings. Prerequisite: Department approval

PSGT 1260 - POLYSOMNOGRAPHY CLINICAL I
2 Credits. (9 hrs. ext.) A health-related work-based learning experience that enables the student to apply specialized occupational theory, skills, and concepts. Direct supervision is provided by the clinical professional. Prerequisites: PSGT 1305, PSGT 1400, PSGT 1310, and PSGT 1340 and department approval

PSGT 1291 - SPECIAL TOPICS - POLYSOMNOGRAPHY
2 Credits (1 hr. lec., 2 hrs. lab.) Topics address recently identified current events, skills, knowledge, and/or attitudes and behaviors pertinent to the technology or occupation and relevant to the professional development of the student. This course was designed to be repeated multiple times to improve student proficiency. Prerequisites: PSGT 1360 and PSGT 2250 and department approval

PSGT 1305 - NEUROPHYSIOLOGY OF SLEEP
3 Credits (3 hrs. lec.) Review of the human central nervous system as related to sleep. Emphasis on associated wave patterns and collection and utilization of sleep histories. Prerequisite: Department approval

PSGT 1310 - NEUROANATOMY & PHYSIOLOGY
3 Credits (2 hrs. lec., 3 hrs. lab.) Basic neuroanatomy and physiology. Includes neurologic history, neurologic exam, and diagnostic tools applied to the study of various neurologic disorders. Prerequisite: Department approval

PSGT 1340 - SLEEP DISORDERS
3 Credits (2 hrs. lec., 3 hrs. lab.) Disorders that affect sleep. Includes insomnia, circadian rhythm disorders, narcolepsy, sleep disordered breathing, REM behavior, movement and neuromuscular disorders, medical, and psychiatric. Prerequisite: Department approval

PSGT 1360 - POLYSOMNOGRAPHY CLINICAL II
3 Credits. (12 hrs. ext.) A health-related work-based learning experience that enables the student to apply specialized occupational theory, skills, and concepts. Direct supervision is provided by the clinical professional. Prerequisites: PSGT 1260, PSGT 2205 and PSGT 2411 and department approval

PSGT 1400 - POLYSOMNOGRAPHY I
4 Credits (2 hrs. lec., 6 hrs. lab.) Introduction to polysomnographic technology. Includes terminology, instrumentation, patient safety, infection control, recording and monitoring techniques, documentation, professional issues, and patient-technologist interactions. Prerequisite: Department approval

PSGT 2205 - SLEEP SCORING & STAGING
2 Credits (1 hr. lec., 2 hrs. lab.) Development of skills for sleep scoring, staging, and record preparation. Prerequisites: PSGT 1305, PSGT 1400, PSGT 1310 and PSGT 1340 and department approval

PSGT 2250 - INFANT PEDIATRIC POLYSOMNOGRAPHY
2 Credits (1 hr. lec., 4 hrs. lab.) Sleep physiology and the normal sleep patterns of the infant and pediatric population. Includes opportunities to perform a pediatric study. Prerequisites: PSGT 1260, PSGT 2205 and PSGT 2411 and department approval

PSGT 2411 - POLYSOMNOGRAPHY II
4 Credits (2 hrs. lec., 6 hrs. lab.) Current practices in polysomnography. Includes the use of specialized equipment used to record and monitor various physiological parameters involved with sleep testing. Emphasizes sleep disorders, theory of testing and treatment procedures, and analysis of polysomnography data. Prerequisites: PSGT 1305, PSGT 1400, PSGT 1310 and PSGT 1340 and department approval

PSGT 2661 - POLYSOMNOGRAPHY CLINICAL III
6 Credits. (36 hrs. ext.) A health-related work-based learning experience that enables the student to apply specialized occupational theory, skills, and concepts. Direct supervision is provided by the clinical professional. Prerequisites: PSGT
Page 316

The following course descriptions were added (9/13) effective spring 2014:

**PTRT 1370 - PETROLEUM GEOLOGY**
3 Credits (3 hrs. lec., 1 hr. lab.) An introduction to the principles and practical application of geological and geophysical concepts in the petroleum industry. The course will focus on the use of facies models, rock shapes and structures porosity and permeability, geophysical logs, drillstem tests, drilling, and production strategies in petroleum exploration. Prerequisites: ENGL 0309 and MATH 0308

**PTRT 1371 - PETROLEUM DATA MANAGEMENT I - EXPLORATION**
3 Credits (3 hrs. lec., 1 hr. lab.) Overview of computer applications in exploration; covers the history, fundamentals, terminology and software for exploration; introduction to the principles of geology, geophysics and petro-physics. Prerequisites: ENGL 0309 and MATH 0308

**PTRT 1372 - PETROLEUM DATA MANAGEMENT II - DRILLING AND PRODUCTION**
3 Credits (2 hrs. lec., 2 hrs. lab.) Overview of computer applications in drilling and production. Covers the history, fundamentals, terminology and software for drilling and production. Introduction to the principles of drilling, production and reservoir. Prerequisites: ENGL 0309 and MATH 0308 and PTRT 1371

**PTRT 1373 - EXPLORATION AND PRODUCTION I**
3 Credits (3 hrs. lec., 1 hr. lab.) Overview of various aspects of deepwater operations deepwater exploration, drilling and completing wells, development of production systems. Prerequisites: ENGL 0309 and MATH 0308 and PTRT 1301

**PTRT 1374 - EXPLORATION AND PRODUCTION II**
3 Credits (3 hrs. lec., 1 hr. lab.) Continue with exploration and production principles including drilling rigs, giant oil and gas fields, beam pumpers, and geological classifications. Prerequisites: ENGL 0309 and MATH 0308 and PTRT 1373

The following course and course description was added (10/13) effective fall 2014:

**PTRT 2331 - WELL COMPLETIONS**
3 Credits (3 hrs. lec.) Drilling and wellbore analysis data to develop a well completion plan. A study of practices and procedures that are involved in drilling operations and evaluate the effects of production operations choosing the tools and procedures for completing a drilled well-bore. Topics on rig equipment, casing design, fishing, and proper procedures to successfully drill a well are implemented; instruction in volume calculations, hydrostatic pressures, formations pressures, and analyzing problems in down-hole drilling operations. Prerequisite: PTRT 1301

The following course and course description was added (10/13) effective fall 2014:

**PTRT 2370 - PETROLEUM DATA MANAGEMENT III - FACILITIES & PERFORMANCE**
3 Credits (3 hrs. lec., 1 hr. lab.) Overview of computer applications in surface facilities and automation. Covers the history, fundamentals, terminology and software for surface facilities and automation. Prerequisites: MATH 0308 and ENGL 0309 and PTRT 1372 or Instructor Consent

Page 319

The following text was deleted (1/13):

RNSG 1417 - CONCEPTS OF PROFESSIONAL NURSING PRACTICE FOR ARTICULATING STUDENTS
4 Credits (4 hrs. lec.)

The following text replaces above text that was removed (11/13) effective spring 2014:
RNSG 1517 - CONCEPTS OF PROFESSIONAL NURSING PRACTICE FOR ARTICULATING STUDENTS
5 Credits (5 hrs. lec.)

The following course was deactivated (11/13) effective spring 2014:
RNSG 2173 - ADVANCED NURSING SKILLS
1 Credit (3 hrs. lab.) Study of the concepts and principles necessary to perform advanced nursing skills. Topics include knowledge, judgment, skills, critical decision-making, and professional values within a legal/ethical framework. Skills include venipuncture, intravenous medication administration, care of the violent patient, advanced EKG interpretation, ventilator care, chest tubes, problem-solving, phlebotomy, tracheostomy care, suctioning, central line dressing changes, and total parenteral nutrition. Prerequisites: RNSG 1129, 1260, 1417, 2504; BIOL 2420, PSYC 2314, SOCI 1301; Corequisites: RNSG 2361 and 2514

The following text was revised (11/13) effective fall 2013:
RNSG 2207 - ADAPTATION TO ROLE OF PROFESSIONAL NURSE
2 Credits (2 hrs. lec.) Selected concepts related to the role of the professional nurse as a provider of patient-centered care, patient safety advocate, member of health care team, and member of the profession. Review of trends and issues impacting nursing and health care today and in the future. Content includes knowledge, judgment, skill, and professional values within a legal/ethical framework. Prerequisites: RNSG 2173, RNSG 2361, and RNSG 2514
Corequisites: RNSG 2362 and RNSG 2535

The above text should now read as follows:
RNSG 2207 - ADAPTATION TO ROLE OF PROFESSIONAL NURSE
2 Credits (2 hrs. lec.) Selected concepts related to the role of the professional nurse as a provider of patient-centered care, patient safety advocate, member of health care team, and member of the profession. Review of trends and issues impacting nursing and health care today and in the future. Content includes knowledge, judgment, skill, and professional values within a legal/ethical framework. Prerequisites: RNSG 2173, RNSG 2361, and RNSG 2514
Corequisites: RNSG 2362 and RNSG 2535

Page 321
In the description for RNSG 2231 - Advanced Concepts Of Adult Health, the following corequisites have been removed (11/13):
RNSG 2307

In the description for RNSG 2307 - Adaptation to Role of Professional Nurse, the following prerequisites have been added (11/13):
RNSG 2201, RNSG 2208, RNSG 2213, RNSG 2162, RNSG 2261, RNSG 2260

In the description for RNSG 2307 - Adaptation to Role of Professional Nurse, the following corequisite has been removed (11/13):
RNSG 2231

In the description for RNSG 2362 - Clinical - Nursing IV, the following corequisites have been removed (11/13):
RNSG 2207, 2535

Page 322
In the description for RNSG 2535 - Integrated Patient Care Management, the following corequisites have been removed:
RNSG 2207, 2535

Page 323
The following course description was added (9/13) effective spring 2014:
RSPT 1310 - RESPIRATORY CARE PROCEDURES I
3 Credits (2 hrs. lec., 4 hrs. lab.) Essential knowledge of the equipment and techniques used in the treatment of cardiopulmonary disease. Prerequisite: None
Page 336
In the course description for VTHT 1441 - Anesthesia And Surgical Assistance, the credits have been revised (11/13, effective spring 2014) to read:
4 Credits (2 hrs. lec., 6 hrs. lab.)

Page 337
The following text in the WIND 1300 description was deleted (1/14) effective summer 2014:
Prerequisites: ENGL 0304 or ENGL 0364 AND ENGL 0306 or ENGL 0374 OR ENGL 0302 OR higher level course (ENGL 1301) OR placement by testing; MATH 0306
The following text in the WIND 1300 description was added (1/14) effective summer 2014:
Prerequisite: None

The following text in the WIND 2359 description was deleted (1/14) effective summer 2014:
Prerequisites: WIND 1300; ENGL 0305 or ENGL 0365 or ENGL 0115 AND ENGL 0307 or ENGL 0375 or ENGL 0117 OR higher level course (ENGL 1301) OR placement by testing. ENGL 0309 or ENGL 0310 also meets prerequisite; MATH 0306
The following text in the WIND 2359 description was added (1/14) effective summer 2014:
Prerequisite: None

The following text in the WLDG 1421 description was deleted (1/14) effective summer 2014:
Prerequisites: ENGL 0304 or ENGL 0364 AND ENGL 0306 or ENGL 0374 OR ENGL 0302 OR higher level course (ENGL 1301) OR placement by testing; MATH 0306
The following text in the WLDG 1421 description was added (1/14) effective summer 2014:
Prerequisite: None