

**2+2 Pathway**  
**LC's AAS in Instrumentation Technology to BC's Bachelor's in Industrial Management**

Course	Name	Credits	Completed	Need to Take
INTC1305	<i>Introduction to Instrumentation</i>	3	3	
CTEC1401	<i>Applied Petrochemical Technology</i>	4	4	
BCIS1305 (Substitute for POFI1301) OR SPCH1311, SPCH1315, SPCH1318, or SPCH1321 (Core Code 010)	<i>Business Computer Applications OR Oral Communication (Speech) Course</i>	3	3	
INTC1456	<i>Instrumentation Calibration</i>	4	4	
INTC1441	<i>Principles of Automatic Control</i>	4	4	
INTC1343	<i>Application of Industrial Automatic Control</i>	3	3	
INTC1350	<i>Digital Measurement Controls</i>	3	3	
INTC2433	<i>Instrumentation Systems Installation</i>	4	4	
ELPT1441	<i>Motor Control</i>	4	4	
ELPT2319	<i>Programmable Logic Controllers I</i>	3	3	
ELPT2331 OR INTC1348	<i>AC/DC Drives OR Analytical Instrumentation</i>	3	3	
ELPT2355 OR INTC1374	<i>Programmable Logic Controllers II OR Analytical Instrumentation II</i>	3	3	
ENGL1301 (Core Code 010)	<i>English Composition I</i>	3	3	
Social & Behavioral Science (Core Code 080) OR History (Core Code 060) OR Government (Core Code 070)	Will be completed.	3	3	
Life & Physical Sciences (Core Code 030) OR Mathematics (Core Code 020)	Will be completed.	3 - 4	3 - 4	
Creative Arts (Core Code 050) OR Language, Philosophy, or Culture (Core Code 040)	Will be completed	3	3	

**52 Credits in possible transfer from LC to BC's Bachelor's in Industrial Management Program**

<sup>1</sup> Life & Physical Science w/ Lab (Core Code 030)	See notes following this table.	4		4
<sup>2</sup> Life & Physical Science w/ Lab	See notes following this table.	4		4
<sup>3</sup> Lang, Philosophy, & Culture (Core Code 040)	See notes following this table.	3		3
<sup>4</sup> History I: American History I (Core Code 060)	See notes following this table.	3		3
<sup>5</sup> History II: American History II	See notes following this table.	3		3
<sup>6</sup> Govt I: American Government (Core Code 070)	See notes following this table.	3		3
<sup>7</sup> Govt II: Texas Government	See notes following this table.	3		3
<sup>8</sup> ENGL1302 (Core Code 090)	See notes following this table.	3		3
<sup>9</sup> PSYC1300 (Core Code 090)	See notes following this table.	3		3
<sup>10</sup> Business Correspondence/Comm	See notes following this table.	3		3
<sup>11</sup> Business Computer Applications	See notes following this table.	3		3
<sup>12</sup> Creative Arts (Core Code 050)	See notes following this table.	3		3
<sup>13</sup> Social & Behavioral Sciences (Core Code 080)	See notes following this table.	3		3

**29 Lower Division Course needed to complete Texas Core Curricular Requirements**

TMGT3303	<i>Comm. and Conflict Resolution for Tech. Managers</i>	3		3
TMGT3305	<i>Management and Organizational Behavior</i>	3		3
TMGT3307	<i>Operations Management</i>	3		3
TMGT3311	<i>Information Technology in Enterprise Management</i>	3		3
TMGT3325	<i>Legal Issues, Ethics and Corporate Responsibility</i>	3		3
TMGT3340	<i>Quality Assurance, Management and Improvement</i>	3		3
TMGT3350	<i>Applied Technical Statistics</i>	3		3
TMGT3354	<i>Leadership</i>	3		3
TMGT4301	<i>Industrial Cost Estimating and Control</i>	3		3
TMGT4304	<i>Decision Analysis and Risk Management</i>	3		3
TMGT4396 or TMGT4398	<i>Managing Tech. Projects or Strategic Management</i>	3		3

**Notes:**

<sup>1, 2</sup>To satisfy the Life & Physical Science w/ Lab requirement at BC, the following courses may be taken at LC: BIOL1308, BIOL1309, BIOL1322, BIOL1406, BIOL1407, BIOL1408, BIOL1409, BIOL1411, BIOL1413, BIOL2401, BIOL2402, BIOL2406, BIOL2416, BIOL2421; CHEM1405, CHEM1411, CHEM1412, CHEM2423, CHEM2425; ENVR1401, ENVR1402; GEOL1347, GEOL1403, GEOL1404, GEOL1405, GEOL1447; PHYS1317, PHYS1401, PHYS1402, PHYS1403, PHYS1404, PHYS1405, PHYS1407, PHYS1415, PHYS1417, PHYS2425, or PHYS2426. At BC, the following course may be taken to meet this core requirement: PHYS1301/1101, PHYS1302/1102, BIOL1306/1106, BIO1307/1107, ENVR1301/1101, ENVR1302/1102, BIOL2320/2120, CHEM1311/1111, or CHEM1312/1112.

<sup>3</sup>To satisfy the Lang, Philosophy, & Culture requirement at BC, the following courses may be taken at LC: ENGL2322, ENGL2323, ENGL2326, ENGL2327, ENGL2328, ENGL2331, ENGL2322, ENGL2381, ENGL2382; HUMA1301, HUMA1305, HUMA2319; PHIL1301, PHIL1304; SPAN2311, SPAN2312, SPAN2313, or SPAN2315. At BC, the following courses may be taken to meet this core requirement: HUMA1301, PHIL1301, PHIL2306, ENGL2322, ENGL2323, ENGL2327, ENGL2328, ENGL2331, ENGL2341, or ENGL2351.

<sup>4, 5</sup>To satisfy the History requirement at BC, the following courses may be taken at LC: HIST1301, HIST1302, or HIST2301. At BC, the following courses will need to be taken to satisfy the History requirement: HIST1301 and HIST1302.

<sup>6</sup>To satisfy GOVT2305, this course can be taken at

LC or BC. <sup>7</sup>To satisfy GOVT2306, this course can be

taken at LC or BC. <sup>8</sup>To satisfy ENGL1302, this course

can be taken at LC or BC.

<sup>9</sup>To satisfy PSYC1300, the following courses may be taken at LC: BCIS1305 (unless used to satisfy one of the two baccalaureate degree prerequisites), EDU1200, KINE1164, KINE1304, or KINE1306. At BC, the following courses may be taken to meet this core requirement: PSYC1300, PSYC2301, PSYC2314, SOC1301, SPCH1315, SPCH1318, SPCH1321, SPCH1311, MATH1314, MATH1324, MATH1325, MATH1332, or MATH1342.

<sup>10</sup>To satisfy the lower division requirement in business writing and communication at BC, the following courses may be taken at LC: POFT2312. At BC, the following course may be taken to meet this core requirement: POFT2312 or ENGL2311.

<sup>11</sup>To satisfy the lower division requirement in business computer applications at BC, the following course may be taken at LC: BCIS1305 or POFI1441. At BC, the following course may be taken to meet this core requirement: POFI1301 or BCIS1405.

<sup>11</sup>To satisfy the Creative Arts requirement of BC, the following courses may be taken at LC: ARCH1311, ARTS1301, ARTS1303, ARTS1304; DRAM1310, DRAM2366, MUSI1306 or MUSI1310. At BC, the following courses may be taken to meet this core requirement: ARTS1301, ARTS1303, ARTS1304, DRAM1310, MUSI1306, or MUSI1307.

<sup>13</sup>To satisfy the Social & Behavioral Science requirement at BC, the following course may be taken at LC: ECON2301, ECON2302, GEOG1303, PSYC2301, or SOCI1301. At BC, the following courses may be taken to meet this core requirement: PSYC2301, PSYC2314, PSYC2316, SOCI1301, SOCI1306, SOCI2301, ECON2301, GEOG1302, or GEOG1303.