

**COLLIN COLLEGE CURRICULUM OUTLINE**

**Mechanical Engineering**

CIP: 14.1901

**AS – Mechanical Engineering Field of Study**

**FIRST YEAR**

**First Semester**

	<u>Lec</u>	<u>Lab</u>	<u>Ext</u>	<u>Cont</u>	<u>Credit</u>
ENGL 1301 Composition I	3	1	0	64	3
GEN ED Creative Arts Component	3	0	0	48	3
GOVT 2306 Texas Government (Texas constitution and topics)	3	0	0	48	3
HIST 1301 United States History I	3	0	0	48	3
MATH 2413 Calculus I <sup>1</sup>	3	3	0	96	4
<b>Total Hours</b>	<b>15</b>	<b>4</b>	<b>0</b>	<b>304</b>	<b>16</b>

**Second Semester**

	<u>Lec</u>	<u>Lab</u>	<u>Ext</u>	<u>Cont</u>	<u>Credit</u>
ENGL 2311 Technical and Business Writing	3	0	0	48	3
HIST 1302 United States History II	3	0	0	48	3
MATH 2414 Calculus II	3	3	0	96	4
PHYS 2425 University Physics I	3	3	0	96	4
<b>Total Hours</b>	<b>12</b>	<b>6</b>	<b>0</b>	<b>288</b>	<b>14</b>

**SECOND YEAR**

**First Semester**

	<u>Lec</u>	<u>Lab</u>	<u>Ext</u>	<u>Cont</u>	<u>Credit</u>
ENGR 2301 Engineering Mechanics I	3	0	0	48	3
GOVT 2305 Federal Government (Federal constitution and topics)	3	0	0	48	3
MATH 2415 Calculus III	3	3	0	96	4
PHYS 2426 University Physics II	3	3	0	96	4
<b>Total Hours</b>	<b>12</b>	<b>6</b>	<b>0</b>	<b>288</b>	<b>14</b>

**Second Semester**

	<u>Lec</u>	<u>Lab</u>	<u>Ext</u>	<u>Cont</u>	<u>Credit</u>
CHEM 1409 General Chemistry for Engineering Majors	3	3	1	112	4
ENGR 2302 Engineering Mechanics II	3	0	0	48	3
ENGR 2305 Electric Circuits I	3	0	0	48	3
ENGR 2332 Mechanics of Materials	3	0	0	48	3
MATH 2320 Differential Equations	3	1	0	64	3
<b>Total Hours</b>	<b>15</b>	<b>4</b>	<b>1</b>	<b>320</b>	<b>16</b>

**GRAND TOTAL HOURS 1200 60**

1. Students should consult with an academic advisor since one or more mathematics courses may be required before enrolling in MATH 2413.