



**Transfer Pathway: Blinn College AS
Engineering, Electrical to Lamar University BS
Electrical Engineering**



| First Year - Freshman | | | | | | | |
|--------------------------|---------------------------------|---------------------------|-----------|-----------------|--|--------------------------|-----------|
| Fall Semester | | | | Spring Semester | | | |
| Blinn | Lamar | Course Name | Hrs | Blinn | Lamar | Course Name | Hrs |
| ENGR 1201 | | Intro to Eng. | 2 | ENGR 1304 | | Engineering Graphics | 3 |
| MATH 2413 | | Calculus I | 4 | MATH 2414 | | Calculus II | 4 |
| COSC 1420 | | C Programming | 4 | PHYS 2325 | | University Physics I | 3 |
| ENGL 1301 | | English Comp I | 3 | PHYS 2125 | | University Physics I Lab | 1 |
| Core Course | | Core Course | 3 | ENGL 1302 | | English Comp II | 3 |
| | | | | Core Course | | Core Course | 3 |
| Total | | | 16 | Total | | | 17 |
| Summer Semester | | | | | | | |
| Blinn | Lamar | Course Name | Hrs | Blinn | Lamar | Course Name | Hrs |
| MATH 2318 | | Linear Algebra | 3 | | | | |
| Total | | | 3 | Total | | | 0 |
| Second Year - Sophomore | | | | | | | |
| Fall Semester | | | | Spring Semester | | | |
| Blinn | Lamar | Course Name | Hrs | Blinn | Lamar | Course Name | Hrs |
| ENGR 2304 | | Prog. for Engineers | 3 | ENGR 2405 | | Electrical Circuits | 4 |
| MATH 2415 | | Calculus III | 4 | Core Course | | Core Course | 3 |
| PHYS 2326 | | University Physics II | 3 | Core Course | | Core Course | 3 |
| PHYS 2126 | | University Physics II Lab | 1 | MATH 2320 | | Differential Equations | 3 |
| Core Course | | Core Course | 3 | | | | |
| Total | | | 14 | Total | | | 13 |
| Summer Semester at Lamar | | | | | | | |
| Blinn | Lamar | Course Name | Hrs | Blinn | Lamar | Course Name | Hrs |
| | ELEN 3381 | Electrical Analysis | 3 | | ELEN 3101 | Advanced EE Lab | 1 |
| | ELEN 3431 | Digital System Design I | 3 | | | | |
| Total | | | 6 | Total | | | 1 |
| Third Year - Junior | | | | | | | |
| Fall Semester | | | | Spring Semester | | | |
| Lamar | Course Name | | Hrs | Lamar | Course Name | | Hrs |
| ELEN 3312 | Circuits Analysis II | | 3 | ELEN 3322 | Electronics II | | 3 |
| ELEN 3371 | Electromagnetics | | 3 | ELEN 3313 | Signals, Systems, & Transforms | | 3 |
| ELEN 3421 | Electronics I | | 4 | ELEN 3441 | Fundamentals of Power Engineering | | 4 |
| ELEN 4486 | Embedded Microprocessor Systems | | 4 | ELEN 4387 | Computer Organization & Architecture | | 3 |
| POLS 2301 | Political Science I | | 3 | POLS 2302 | Political Science II | | 3 |
| Total | | | 17 | Total | | | 16 |
| Summer Semester | | | | | | | |
| Lamar | Course Name | | Hrs | Lamar | Course Name | | Hrs |
| | | | | | | | |
| Total | | | 0 | Total | | | 0 |
| Fourth Year - Senior | | | | | | | |
| Fall Semester | | | | Spring Semester | | | |
| Lamar | Course Name | | Hrs | Lamar | Course Name | | Hrs |
| ELEN 4306 | Senior Projects Design I | | 3 | ELEN 4307 | Senior Projects Design II | | 3 |
| ELEN 4351 | Control Engineering | | 3 | EE Elective | EE Elective* | | 3 |
| ELEN 4361 | Communication Systems | | 3 | EE Elective | EE Elective* | | 3 |
| EE Elective | EE Elective* | | 3 | MATH 3370 | Intro to Theory of Statistical Inference | | 3 |
| CHEM 1311 | General Chemistry I | | 3 | | | | |
| CHEM 1111 | General Chemistry I Lab | | 1 | | | | |
| Total | | | 16 | Total | | | 12 |

Notes:

Both COSC 1420 and ENGR 2304 are substitutes for ELEN 3301. Recommended to replace one of them with Linear Algebra.

Total Credit Hours are 132 minus:

7hrs - COSC 1420 and ENGR 1304 are not counted,

1hr - only one hour of the ENGR 1201 is counted

3hrs - ELEN 3301 is not a core course, and

1hr - ELEN 3101 is not a core course but required for transfer students

= 120 hours