

# Example Dual-Degree Plan: Physics B.S.— Baker University & Aerospace Engineering B.S.—University of North Dakota (UND)

| Freshman Fall |                      |     |       |       |
|---------------|----------------------|-----|-------|-------|
| Course #      | Course Name          | Cr. | Where | Notes |
| MA171         | Calculus I           | 4   | BU    |       |
| PC225         | Gen. Physics I       | 4   | BU    |       |
| CH137/L       | Gen. Chemistry I/Lab | 4   | BU    |       |
| BC110         | Freshman Seminar I   | 3   | BU    |       |
| BK101         | Baker Experience     | 1   | BU    |       |

| Sophomore Fall |                                  |     |       |             |
|----------------|----------------------------------|-----|-------|-------------|
| Course #       | Course Name                      | Cr. | Where | Notes       |
| PC325          | Gen. Physics III                 | 4   | BU    | See. Below* |
| PC361          | Thermodynamics                   | 3   | BU    |             |
| MA372          | Differential Equations           | 3   | BU    |             |
| PH120          | Core-HU (Ethics)                 | 3   | BU    |             |
| ME101          | Intro. to Mechanical Engineering | 3   | UND   |             |

| Junior Fall |                             |     |       |                |
|-------------|-----------------------------|-----|-------|----------------|
| Course #    | Course Name                 | Cr. | Taken | Notes          |
| PC470       | Electricity and Magnetism I | 3   | BU    | Tech. Elective |
| MA281       | Linear Algebra              | 4   | BU    |                |
| ENGR202     | Dynamics                    | 3   | UND   |                |
| ME301       | Materials Science           | 3   | UND   |                |
| ME306       | Fluid Mechanics             | 3   | UND   |                |

| Senior Fall |                            |     |       |       |
|-------------|----------------------------|-----|-------|-------|
| Course #    | Course Name                | Cr. | Taken | Notes |
| PC490       | Quantum Mechanics          | 3   | BU    |       |
| Core-WL     | World Language Requirement | 4   | BU    |       |
| AE490       | Mechanics of Flight        | 3   | UND   |       |
| ME491       | Aerospace Structures       | 3   | UND   |       |
| ME493       | Aerospace Propulsion       | 3   | UND   |       |

| Freshman Spring |                       |     |       |            |
|-----------------|-----------------------|-----|-------|------------|
| Course #        | Course Name           | Cr. | Where | Notes      |
| MA172           | Calculus II           | 4   | BU    |            |
| PC226           | Gen. Physics II       | 4   | BU    | See Below* |
| CH138           | Gen. Chemistry II/Lab | 4   | BU    |            |
| BC120           | Freshman Seminar II   | 3   | BU    |            |

| Sophomore Spring |                            |     |       |       |
|------------------|----------------------------|-----|-------|-------|
| Course #         | Course Name                | Cr. | Where | Notes |
| MA271            | Calculus III               | 4   | BU    |       |
| PC332            | Electronics                | 4   | BU    |       |
| PC381            | Statics                    | 3   | BU    |       |
| ENGR200          | Comp. Appl. in Engineering | 2   | UND   |       |
| ME201C           | Student Design             | 1   | UND   |       |

| Junior Spring |                                |     |       |       |
|---------------|--------------------------------|-----|-------|-------|
| Course #      | Course Name                    | Cr. | Where | Notes |
| Core-CA       | Core Elective- Creative Arts   | 3   | BU    |       |
| Core-SS       | Core Elective- Social Sciences | 3   | BU    |       |
| Core-HU       | Core Elective- Humanities      | 3   | BU    |       |
| ENGR206       | Fundamentals of Elec. Engr.    | 3   | UND   |       |
| ENGR203       | Mechanics of Materials         | 3   | UND   |       |

| Senior Spring |                              |     |       |       |
|---------------|------------------------------|-----|-------|-------|
| Course #      | Course Name                  | Cr. | Where | Notes |
| PC491         | Senior Projects              | 1   | BU    |       |
| ME323/L       | Machine Component Design/Lab | 4   | UND   |       |
| ME466         | Aerodynamics                 | 3   | UND   |       |
| ENGR460       | Engineering Economy          | 3   | UND   |       |
| MATH321       | Applied Statistical Methods  | 3   | UND   |       |
| Tech EI.      | Approved Tech. Simulation    | 3   | UND   |       |

| Fifth Year Spring |                             |     |       |       |
|-------------------|-----------------------------|-----|-------|-------|
| Course #          | Course Name                 | Cr. | Where | Notes |
| Core-Cap          | Core- Capstone              | 3   | BU    |       |
| Core-FA           | Core Elective- Fine Arts    | 3   | BU    |       |
| ME 488            | Engineering Design          | 3   | UND   |       |
| Tech El.          | Approved Tech. Astronautics | 3   | UND   |       |
| Tech El.          | Approved Tech. Thermal Sci. | 3   | UND   |       |

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