

**Department of Electrical and Computer Engineering  
Fundamentals Exemption Request Form**

**Instructions for the student:**

- 1) The following materials **must** be attached to this request. If items are not available, then **significant documentation and explanation** must be provided.
  - a. Transcript copy with equivalent courses highlighted and corresponding UW course number noted
  - b. Copy of official syllabus (if printed from the web, please highlight the URL.)
  - c. Copy of official course description (if printed from the web, please highlight the URL.)
  - d. Textbook title and author
  - e. Any homework and/or tests taken in the class
  
- 2) Return this form, with the attached documentation, to 2304a Engineering Hall. The Student Services Staff will direct the forms to the appropriate faculty member. **(Note: if your case is complicated and requires special instructions, please include a letter of explanation.)**

**Student Name:** \_\_\_\_\_ **ID Number:** \_\_\_\_\_

**Address:** \_\_\_\_\_

**Email:** \_\_\_\_\_ **Date:** \_\_\_\_\_

**FUNDAMENTALS COURE(S) FROM WHICH YOU REQUEST EXEMPTION:**

- \_\_\_\_\_ **Electrodynamics (ECE 220)**  
Vector analysis; potential theory; static and dynamic electric and magnetic fields; macroscopic theory of dielectric and magnetic materials; Maxwell's equations; boundary conditions
- \_\_\_\_\_ **Circuit Analysis (ECE 230)**  
Kirchhoff's laws, resistive circuits, equivalent circuits using Thevenin-Norton theories, small signal analysis, dc operating point, first order-circuits, second-order circuits, Spice and circuit simulation methods, sinusoidal steady state, phasors, poles and zeros of network functions, ideal transformed linear and non-linear two port networks.
- \_\_\_\_\_ **Signals and Systems (ECE 330)**  
Time-domain response and convolution; frequency-domain response using Fourier series; Fourier transform, Laplace Transform; discrete Fourier series and transform; sampling; z-transform; relationships between time and frequency descriptions of discrete and continuous signals and systems
- \_\_\_\_\_ **Electronics (ECE 340)**  
A first course in modeling, characterization, and application of semiconductor devices and integrated circuits. Development of appropriate models for circuit-level behavior of diodes, bi-polar and field effect transistors, and non-ideal op-amps. Application in analysis and design of linear amplifiers. Frequency domain characterization of transistor circuits.
- \_\_\_\_\_ **Digital Systems (ECE 352)**  
Logic components, Boolean algebra, combinatorial logic analysis and synthesis, synchronous and asynchronous sequential logic analysis and design, digital subsystems, computer organization and design.

**ADMISSION COMMITTEE EVALUATION:**

The student is exempt from the following areas:

	yes	no	<b>Comments:</b>
Electrodynamics (ECE 220)	yes _____	no _____	_____
Circuit Analysis (ECE 230)	yes _____	no _____	_____
Signals and Systems (ECE 330)	yes _____	no _____	_____
Electronics (ECE 340)	yes _____	no _____	_____
Digital Systems (ECE 352)	yes _____	no _____	_____

**Signature:** \_\_\_\_\_ **Date:** \_\_\_\_\_