ECE369 Assignment Submission Instructions

Fall 2023

To accommodate the large class size, we are attempting to use auto-graders as much as possible to provide you with the maximum amount of feedback. We are using Gradescope to submit assignments this semester. There are several types of submission boxes you will see in Gradescope. Most are fairly intuitive but we go over a few extra requirements in this document.

Free Form Answer Fields

Short Answer Boxes Short answer text boxes are smaller input fields. They are *not* resizable. When you see a question like this, the response will be autograded. You must follow rules listed below. If you believe you have a correct equivalent answer that was marked wrong, please submit a regrade request to Gradescope. If you have the correct answer but did not follow the formatting rules, you may not receive full credit. Regrade requests will close 1 week after scores have been posted.

Free Response Boxes Free response text boxes are larger input fields. They *are* resizable. Your answer will *not* be autograded when you see a free response text box. However, you should still follow the formatting rules listed below. If you do not follow the formatting rules or use LATEX, you may not recieve full credit.

Formatting Rules

In order to receive full credit, you must follow the formatting rules presented below. These rules are especially important for short answer text boxes that will be autograded. Use the following characters to represent the symbols we have been using this semester.

- A lowercase `v` for the or symbol $\vee$

- A caret `^` for the and symbol $\wedge$

- Use an apostrophe `'` to negate a variable. For example, `B'` would be equivalent to $\neg B$.

- A dash and less than sign `->` for implies $\Rightarrow$

- A greater than sign, dash, less than sign `<->` for iff $\Longleftrightarrow$

- An uppercase `A` for the universal quantifier symbol $\forall$

- An uppercase `E` for the existential quantifier symbol $\exists$

Parenthesis: Only use parentheses where necessary. When using the existential ($\exists$) and universal ($\forall$) quantifiers, use square brackets to surround the body.

Whitespace: Do *not* include any whitespace in your answer.

Variables: When using variables for the existential ($\exists$) and universal ($\forall$) quantifiers, use letters in this order, left to right as they appear: x, y, z, w, u. You shouldn't need more than 5.

Use of LATEX: You may use LATEX for the free response boxes but *not* the short answer boxes. This is because short answer boxes are autograded. You can surround LATEX with `$$` and Gradescope will render whatever is between the `$$` as LATEX. For example, in Gradescope, `$$ A \Rightarrow B $$` will appear as $A \Rightarrow B$. You can write $\forall x \neg G(x)$ by typing `$$ \forall x \neg G(x) $$`.

Formatting Examples

`ExEy F(x) -> G(y)` would be incorrect because it includes whitespace and is missing square brackets. The correct way to write this would be `Ex[Ey[F(x)->G(y)]]`

`Ay[Ax[F(x)->G(y)]]` would be incorrect because the variables are introduced in the incorrect order. The correct way to write this would be `Ax[Ay[F(y)->G(x)]]`

`B->(A v C)` would be incorrect because there is an unnecessary parenthesis and extra whitespace. The correct way to write this would be `B->AvC`