

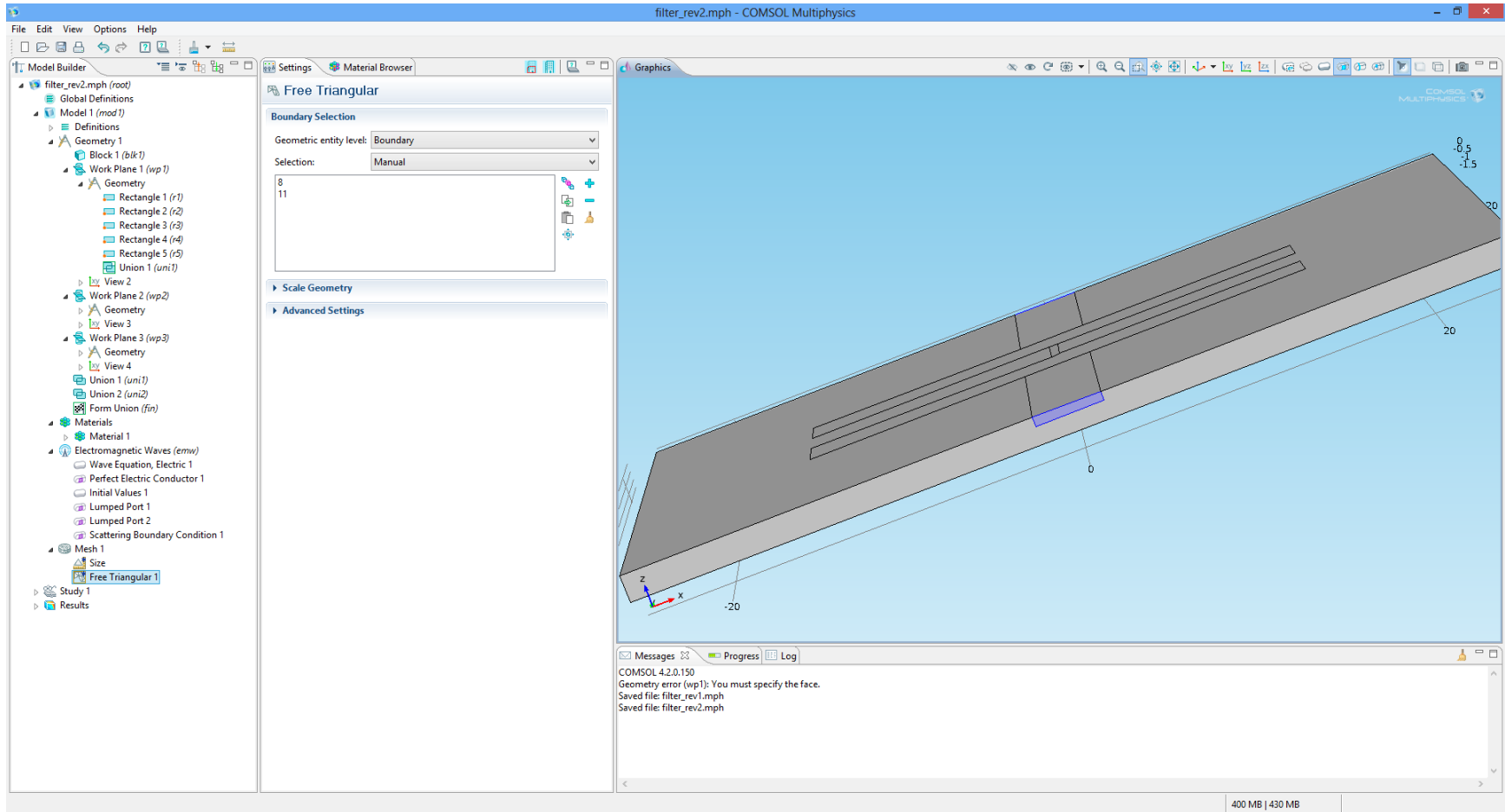
ECEN 3613 HW 25

MESH

Free Triangular 1

1 Right-click on **Mesh 1** and choose **More Operations>Free Triangular**.

2 Select Boundaries corresponding to the input and output ports only.



Size 1

- 1** Right-click **Free Triangular 1** and choose **Size**.
- 2** Go to the **Settings** window for Size.
- 3** Locate the **Element Size** section. Click the **Custom** button.
- 4** Locate the **Element Size Parameters** section. Select the **Maximum element size** check box.
- 5** In the associated edit field, type 1. The Maximum element size is reduced to 1 mm to increase the accuracy of the S-parameter calculations.
- 6** In the **Model Builder** window, right-click **Mesh 1** and choose **Free Tetrahedral**.

Size

- 1** In the **Model Builder** window, click **Size**.
- 2** Go to the **Settings** window for Size.
- 3** Locate the **Element Size** section. From the **Predefined** list, choose **Coarse**.
- 4** Click the **Custom** button.
- 5** Locate the **Element Size Parameters** section. In the **Minimum element size** edit field, type 0.1. Allow the **Minimum element size** to be as small as 0.1 mm, to generate a fine mesh along the thin microstrip.
- 6** Click the **Build All** button.

