Plant Sciences 407b Plant Secondary Metabolism

Assignment No. 5 Phenolic Biosynthesis

Due Monday March 29, 2004

1. For each of the following compounds, state the class of phenolic it represents, and describe (point form) its biosynthesis from a hydroxyc innamic acid. [2 marks]

2. Describe the synthesis of *p*-coumaroyl-CoA from phenylalanine. Using examples, discuss why *p*-coumaroyl-CoA is considered to be a central intermediate in phenylpropanoid metabolism. [3 marks]