Can I do a Computer Science double major with the Cog Sci major?

Yes, but the strategies will be different for B.A. vs. B.S. Please read on.

How would I do a B.A. in Cog Sci and a B.A. in Computer Science?

It just requires some careful planning because of the rule that two majors cannot overlap more than 3 courses.

The Cog Sci B.A. requires you to take CSE 003 & 004 or CSE 007, and so does the Computer Science B.A. major. The Cog Sci B.A. requires you to take CSE 127 or 327, and if you opt for 327, you'll have to take CSE 17 and CSE 140 to get in. These are required courses for the Computer Science B.A., so that's more overlap. If you were to try to count CSE 327 toward both majors, then you'd have another overlap. The Cog Sci major also requires at least one course in the AI and Formal Models track, which can be a CSE course. The bottom line is, you have to pick which you take carefully to avoid exceeding the three-overlap limit.

So the simplest scheme is to take CSE 007 if you have sufficient background, plus CSE 127 for Cog Sci. CSE 127 does not count toward the B.A. in Computer Science, so you can still have two other CSE courses in your Cog Sci program that overlap with Computer Science. If you take CSE 003 & 004 instead of 007, then you have room for one other overlap.

Some other pointers:

You can use PHIL/MATH 114 or another MATH course in the Cog Sci electives list for the AI and Formal Models requirement to avoid overlap with your Computer Science major.

Take your other Cog Sci electives in the other tracks. Trying to focus in the AI and Formal Models track while avoiding more overlap with the Computer Science major would be difficult.

If you take CSE 003 & 004 and then take CSE 17 and CSE 140 in order to take CSE 327 for the Cog Sci core requirement, you have a problem because that's four overlaps (CSE 17 and 140 are required for the Computer Science major). The Program Director can try submitting a Degree Program Exception Approval Petition (available at https://cas.lehigh.edu/content/forms-central) to waive the requirement for CSE 004 in the Cog Sci major on the argument that you are getting sufficient programming experience through your Computer Science major. If that doesn't fly with the Registrar, the other option is to use the same form to do a course substitution for the major - you'll take some additional course with Cog Sci content approved by the Program Director in place of CSE 004. It need not be a programming course or even a CSE course, as long as it is relevant to your training in Cog Sci. (You'll still actually be taking CSE 004 but it will be counted in the Computer Science major.)

How would I do a B.A. in Cog Sci with a B.S. in Computer Science - or a B.S. in Cog Sci with a B.A. in Computer Science, or B.S. in both?

If you do one B.A. and one B.S. or two B.S. majors, you are in the University's Dual Degree category. This is in some sense simpler because there is no limit on the number of courses that can overlap between the majors. However, a Dual Degree requires extra credits to graduate. Usually it requires some combination of AP credits, summer classes, and/or an extra semester or two at Lehigh for completion. Read about the Dual Degree [here](#).

The Dual Degree situation also applies to any student in RCEAS who wants to complete either a B.A. or B.S. in Cognitive Science. In this case, the student must also satisfy the distribution requirements of both colleges.