Scheduling System: Student Side

Student Input #1

- The student enters semesters for which s/he wants the system to construct a schedule.
  - For example
    - student may have entered in fall 2015
    - It's now fall 2016
    - so student already has credits for a number of courses – by having taken the courses or by having gotten AP credit for them – and wants the system to construct a schedule starting with spring 2017 semester, to finish his/her degree program.

- Student enters number of additional academic year semesters s/he wants to take to complete the degree program, indicating, which, if any summer sessions s/he also wants to take courses.

- For each of the specified semesters, student enters the number of credits s/he wants to take during that semester.

Student Input #2

Student clicks on a Degree Program tab and chooses a degree program from a list shown by the system.

- CS_entering_2016
- CS_entering_2015
- CS_entering_2014
- CS_entering_2013
- CS_entering_2012
- CyS_entering_2016
- CyS_entering_2015
- CyS_entering_2014
- CyS_entering_2013
- CyS_entering_2012

Student Input #3

Student clicks on a requirement and
Is shown a description of the
requirement.

CS_STARTING_COURSE_REQUIREMENT

CS_REQUIREMENT

SOFTWARE_DEVELOPMENT_REQUIREMENT

TECH_ELECTIVES REQUIREMENT

MATH_REQUIREMENT

SCIENCE_REQUIREMENT

MANAGEMENT_REQUIREMENT

HUMANITIES_REQUIREMENT

PHYS_ED_REQUIREMENT

SCIENCE_MATH_ELECTIVE_REQUIREMENT

FREE_ELECTIVE_REQUIREMENT

Student Input #3 (cont.)

Student clicks on a particular
Requirement and is shown
details of that requirement.

For example:

CS_STARTING_COURSE_REQUIREMENT

CS_REQUIREMENT

SOFTWARE_DEVELOPMENT_REQUIREMENT

TECH_ELECTIVES REQUIREMENT

MATH_REQUIREMENT

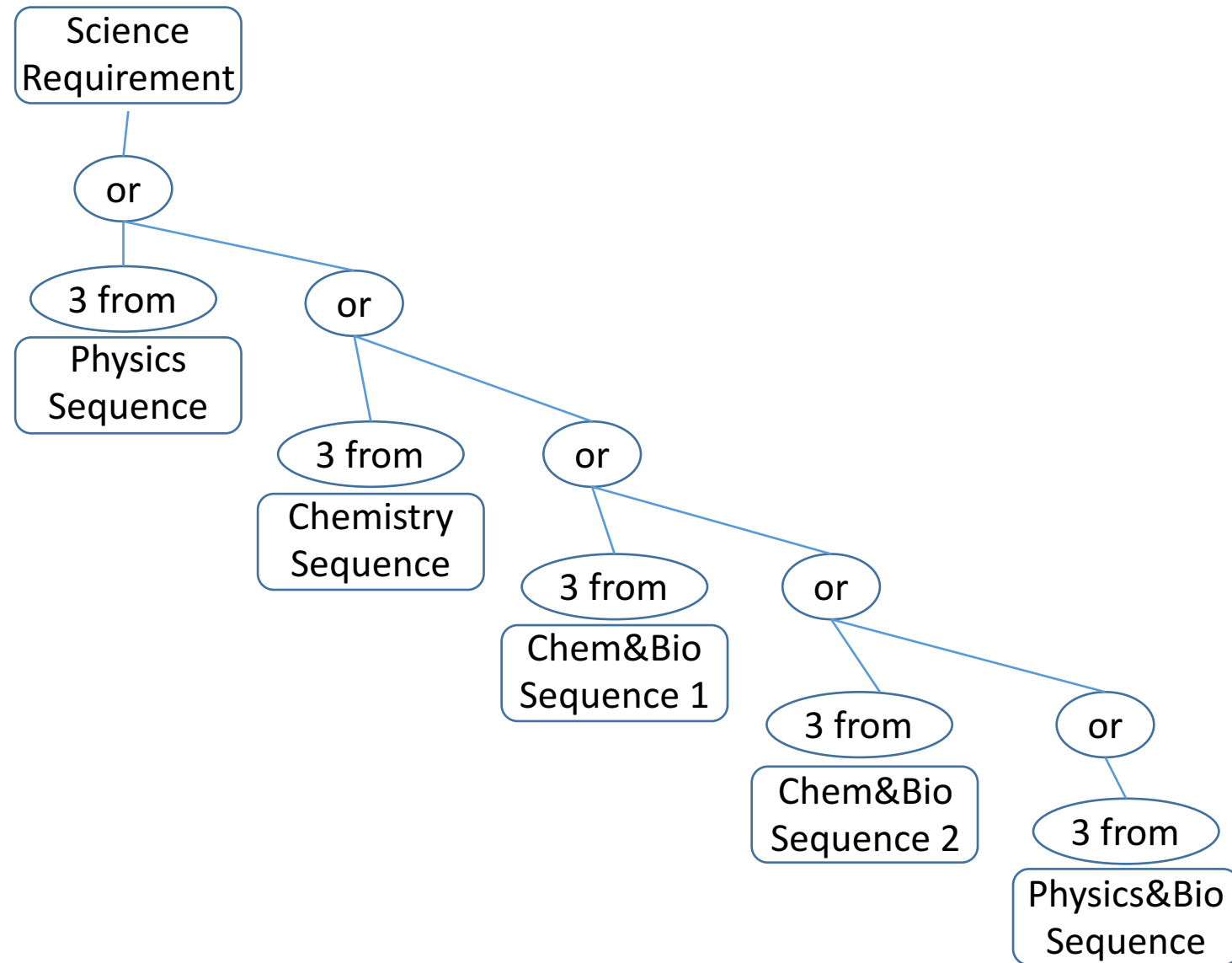SCIENCE_REQUIREMENT

MANAGEMENT_REQUIREMENT

HUMANITIES_REQUIREMENT

PHYS_ED_REQUIREMENT

SCIENCE_MATH_ELECTIVE_REQUIREMENT
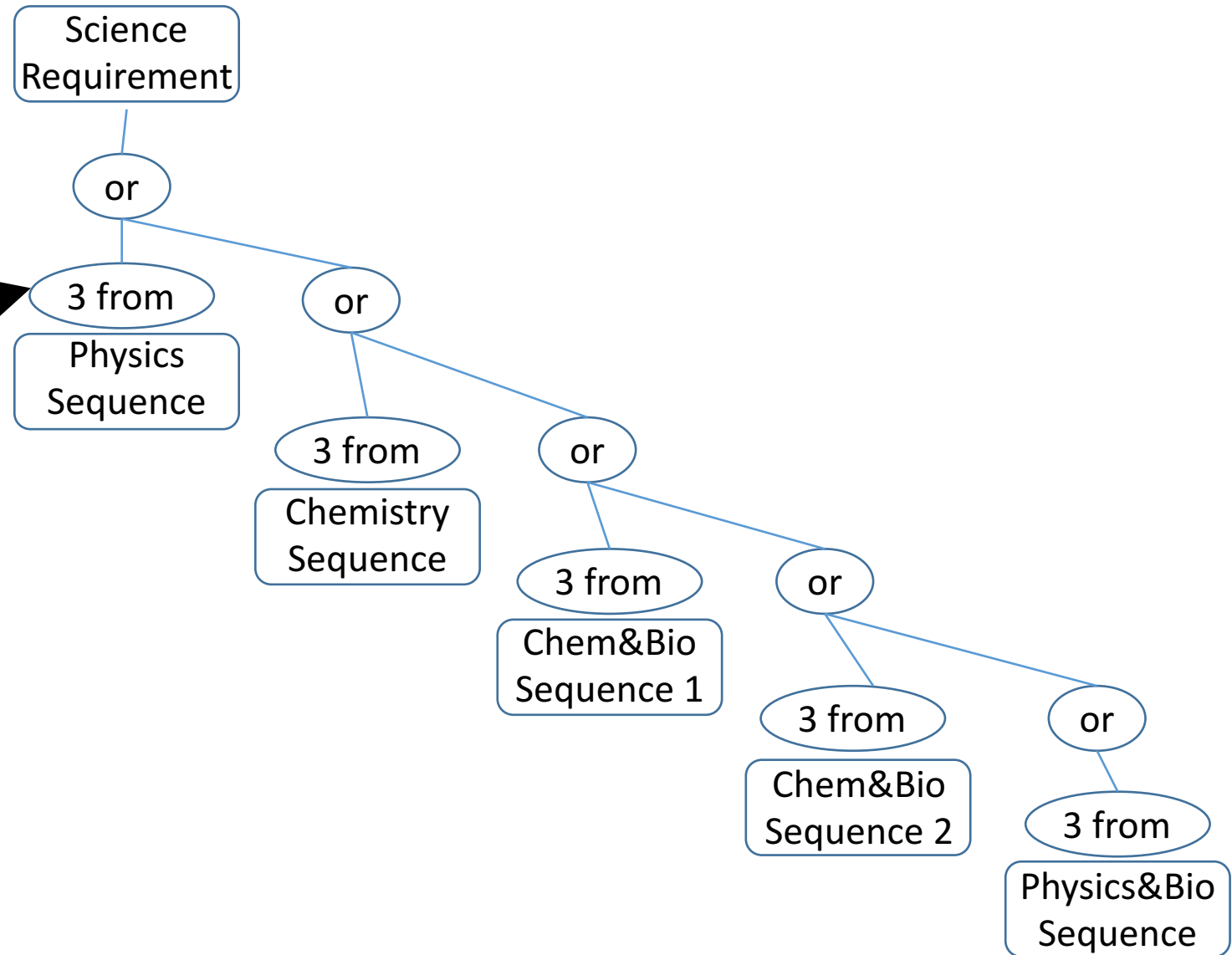
FREE_ELECTIVE_REQUIREMENT
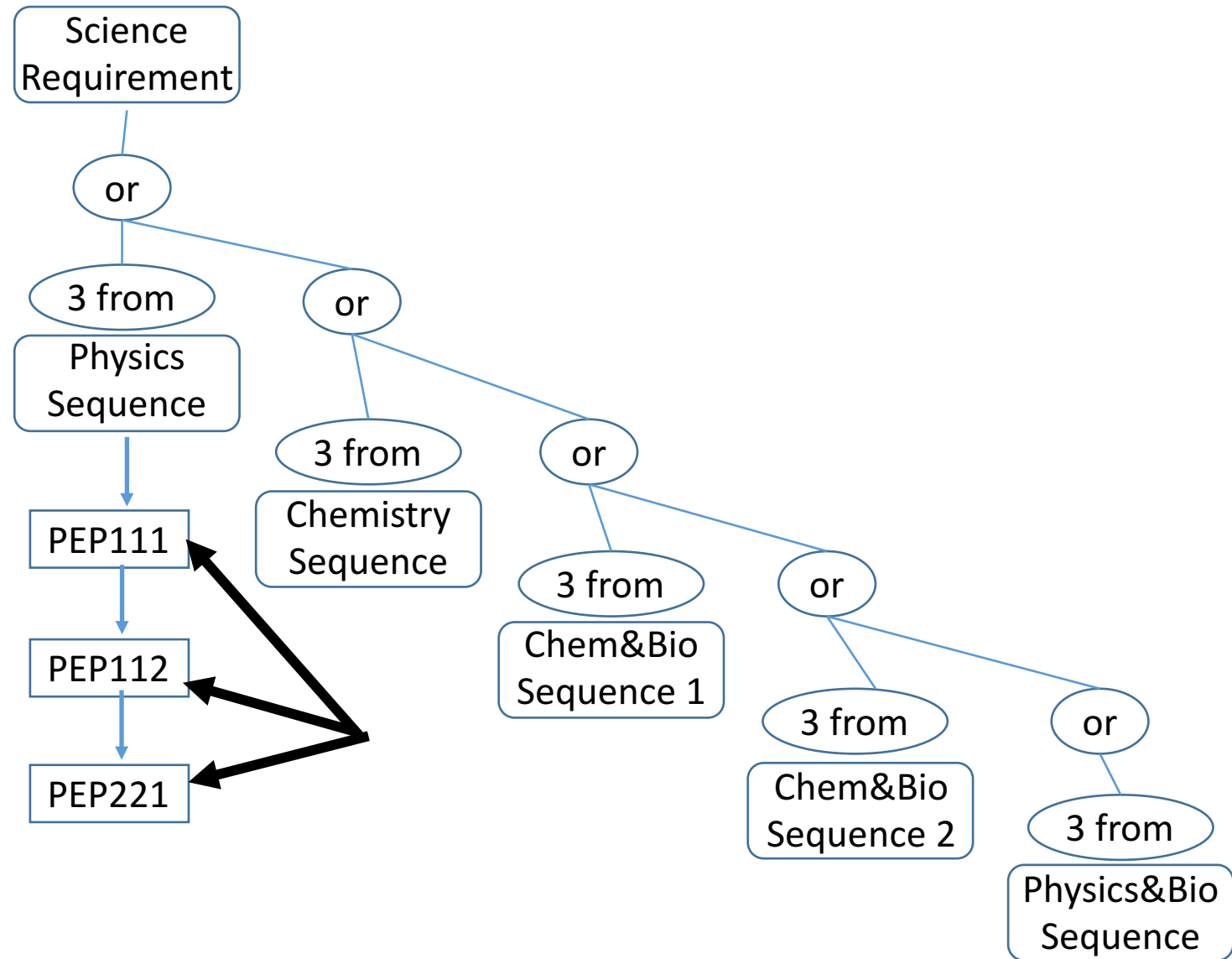
Student Input #3 (cont.)

Student Input #3 (cont.)

Student can click on a
Specific requirement to
Get additional details

For example:

Science Requirement

- or
  - 3 from — Physics Sequence
  - or
    - 3 from — Chemistry Sequence
    - or
      - 3 from — Chem&Bio Sequence 1
      - or
        - 3 from — Chem&Bio Sequence 2
        - or
          - 3 from — Physics&Bio Sequence

Student Input #3 (cont.)

Student Input #3 (cont.)

Science Requirement

or

3 from

Physics Sequence

or

3 from

Chemistry Sequence

or

3 from

Chem&Bio Sequence 1

or

3 from

Chem&Bio Sequence 2

or

3 from

Physics&Bio Sequence
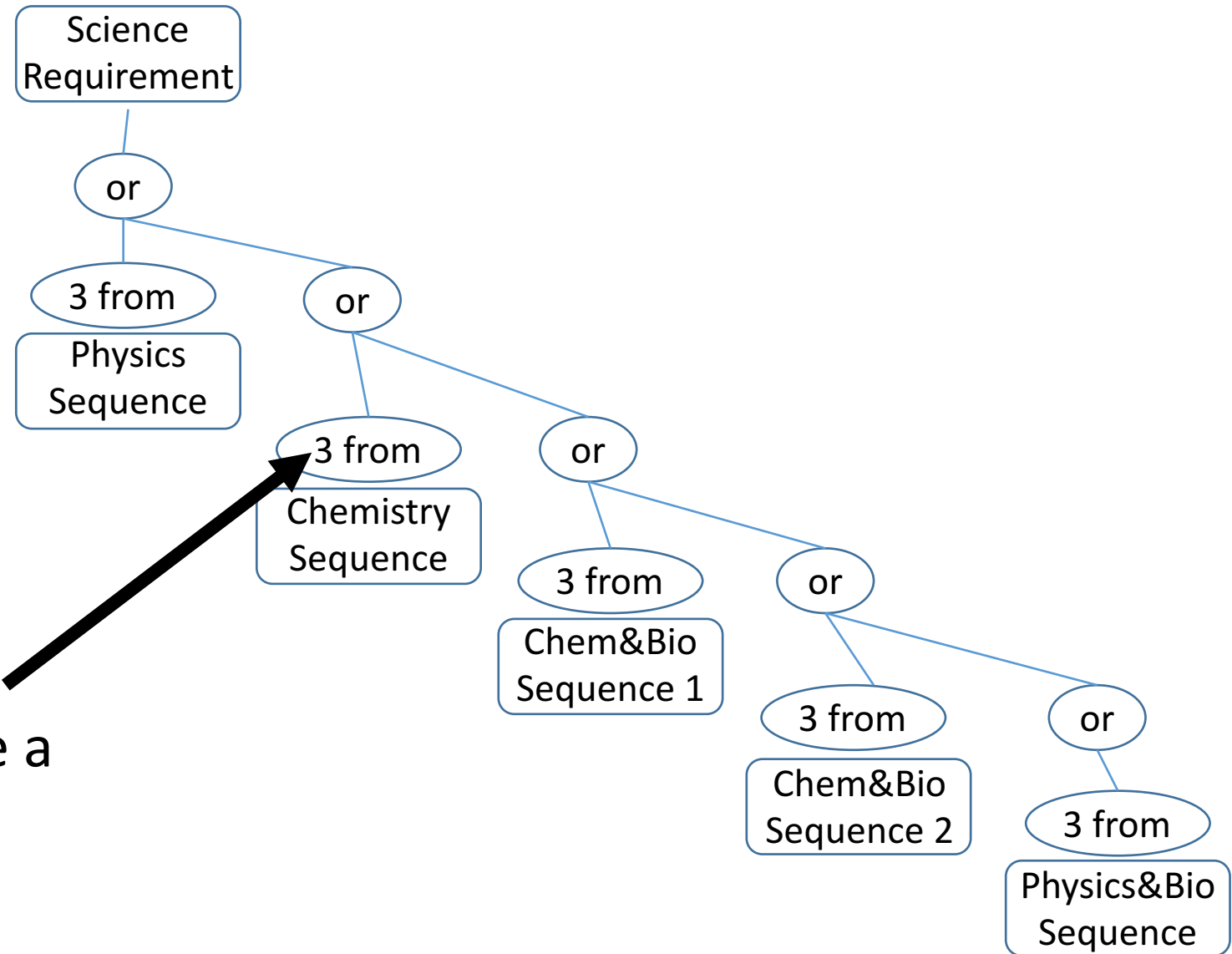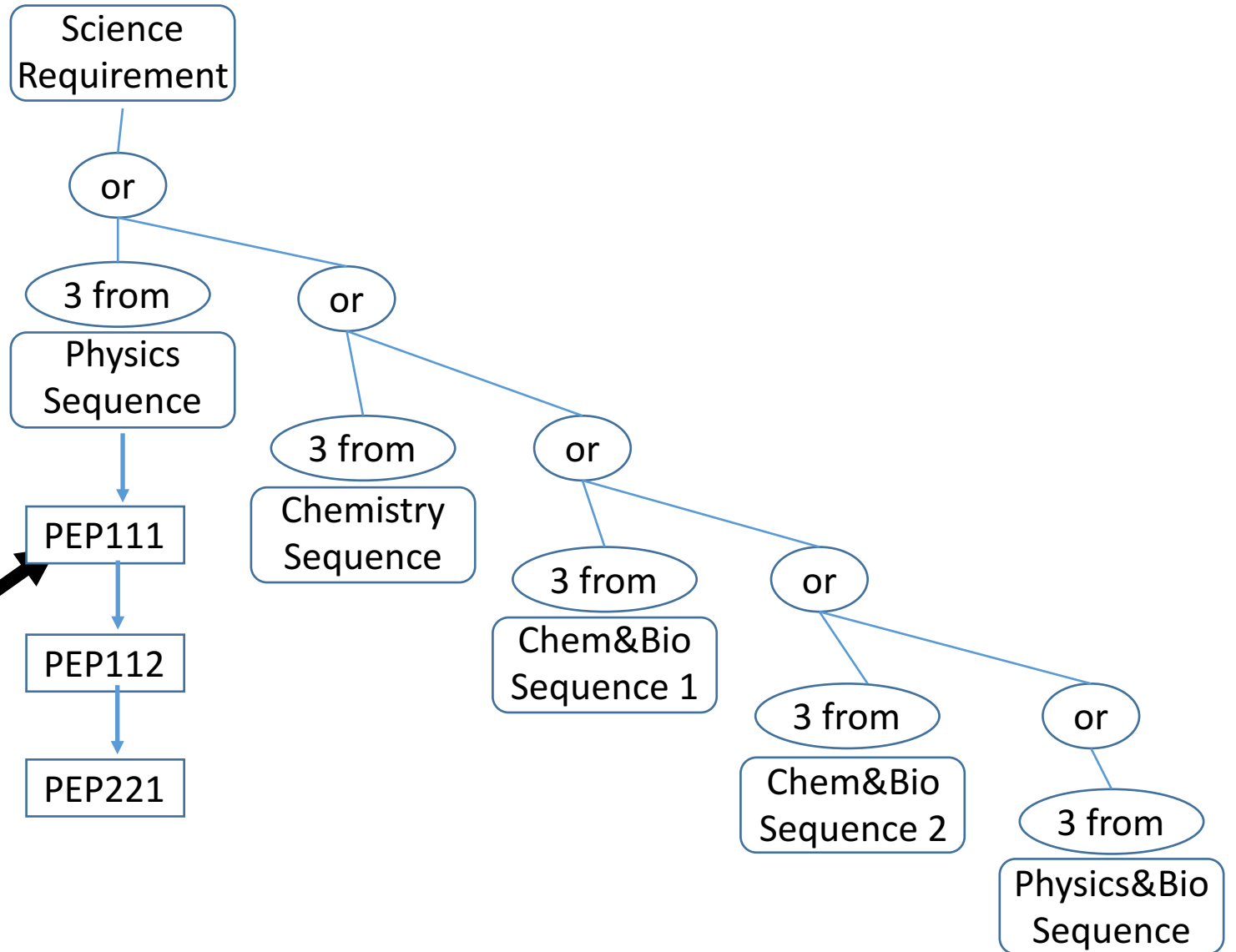
Student can click on a "Choose Option" tab, for example and can Choose a particular option.

But

- The student, if s/he wants to, s/he can choose to let the system decide on which science course sequence to use for the Science Requirement

Student Input #4

The student can click on a "Course Taken" tab to indicate that s/he has taken a course and the requirement towards which s/he wants it to count, for example:

Science Requirement
or
3 from — Physics Sequence → PEP111 → PEP112 → PEP221
or
3 from — Chemistry Sequence
or
3 from — Chem&Bio Sequence 1
or
3 from — Chem&Bio Sequence 2
or
3 from — Physics&Bio Sequence

But

- The student, if s/he wants to indicate the desire to take a particular course, but to let the system decide what requirement to use it for, s/he can click on a "Course" tab, choose a particular course, s/he can simply choose to take the course.

- S/he can select the semester s/he wants to take the course, or leave it to the scheduling system to decide on a semester.

And

- The student can, at any time, click on a "Schedule" button, in which case the scheduling system will attempt to put together a schedule that satisfies all the student's choices – if any.

HW 10

- Construct a use-case based GUI prototype for the student side of the scheduling system.
- Due Friday night November 18ᵗʰ
- Remember that, in general, anything that can be added/chosen should be able to be edited and deleted.
- Remember to use the highly stylized type of use case text and GUI prototype format.
- If you can design a better looking, or more user friendly, design than has been suggested in this ppt, then please do so, as long as it enables the student to make all the choices described.