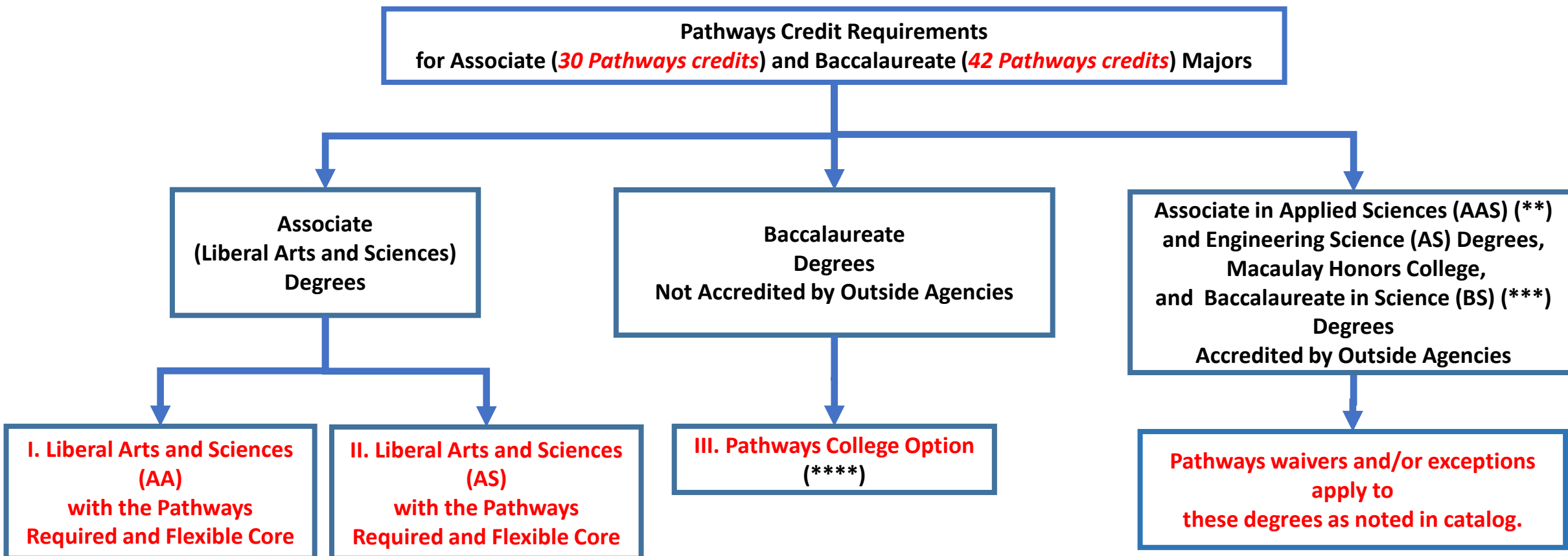


# Pathways at CSI Deciphered !

Erlan H. Feria, Feb. 4, 2016

# PATHWAYS at CSI

( Eleven flowcharts for a simpler pictorial big-picture observation by us for control actions as well as communication to others of pathways course requirements at CSI (\*) )



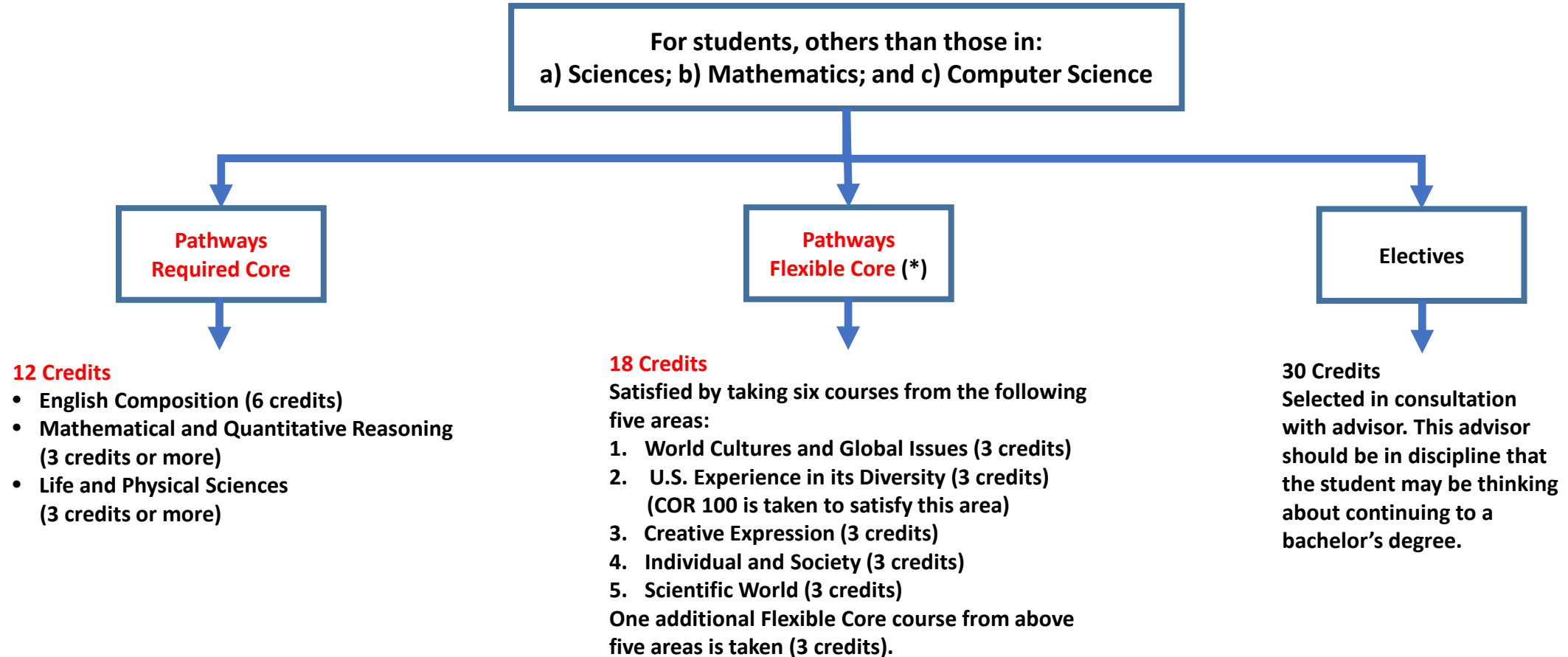
(\*) These flowcharts were first presented by Dr. Erlan H. Feria (Professor, Engineering Science and Physics Department) at the December 1<sup>st</sup>, 2015 meeting of the Subcommittee on Contemporary World (CW) and Pluralism and Diversity (P&D) of CSI's General Education Committee, for discussion of suggested changes to the catalog language. Since then further clarifying details have been contributed by Veronica DiMeglio (HEO Associate, Registrar's Office), and Dr. Nan M. Sussman (Dean, Humanities and Social Sciences). Future changes or enhancements will be introduced as Pathways evolves at CSI.

(\*\*) AAS Degrees are in: Business, Computer Technology, Electrical Engineering Technology, and Nursing.

(\*\*\*) BS Degrees are in: Computer Science, Engineering Science, Electrical Engineering, Medical Technology, and Nursing.

(\*\*\*\*) The Pathways College Option is beyond the also required Pathways Required Core and Pathways Flexible Core for Baccalaureate degrees.

# I. Liberal Arts and Sciences (AA)



(\* ) There are no 200 level courses offered in the Pathways Flexible Core. 200 level courses may also satisfy the SS (Social Science), TALA (Textual, Aesthetic and Linguistic Analysis) , P&D (Pluralism and Diversity), and CW (Contemporary World) requirements of the Pathways College Option for Baccalaureate degrees.

# II. Liberal Arts and Sciences (AS)

For students interested, in the future, in matriculating in a Bachelor's degree in:  
a) Sciences; b) Mathematics; and c) Computer Science.  
At CSI STEM (Science, Technology, Engineering and Mathematics) BS degrees are in:  
Biochemistry; Biology; Chemistry; Computer Science (\*); Computer Science-Mathematics; Engineering Science (\*); Electrical Engineering (\*); Medical Technology (\*); Nursing (\*); and Physics.

## Pathways Required Core

### 12 Credits

- English Composition (6 credits)
- Mathematical and Quantitative Reasoning (3 credits or more)
- Life and Physical Sciences (3 credits or more)

## Pathways Flexible Core (\*\*)

### 18 Credits

Satisfied by taking six courses from the following five areas:

1. World Cultures and Global Issues (3 credits)
2. U.S. Experience in its Diversity (3 credits)  
(COR 100 is taken to satisfy this area)
3. Creative Expression (3 credits)
4. Individual and Society (3 credits)
5. Scientific World (3 credits)

One additional Flexible Core course from above five areas is taken (3 credits).

## Requirements

### 11 Credits

- 8 Credits from AST, BIO, CHM, PHY, GEO, CSC
- 3 Credits from BIO, MTH. Minimum of two science or math courses at the 200-level or above chosen from astronomy, biology, chemistry, computer science, engineering science, geology, math, or physics. Students should consult with an academic advisor in the discipline of interest as early as possible.

## Electives

### 19 Credits

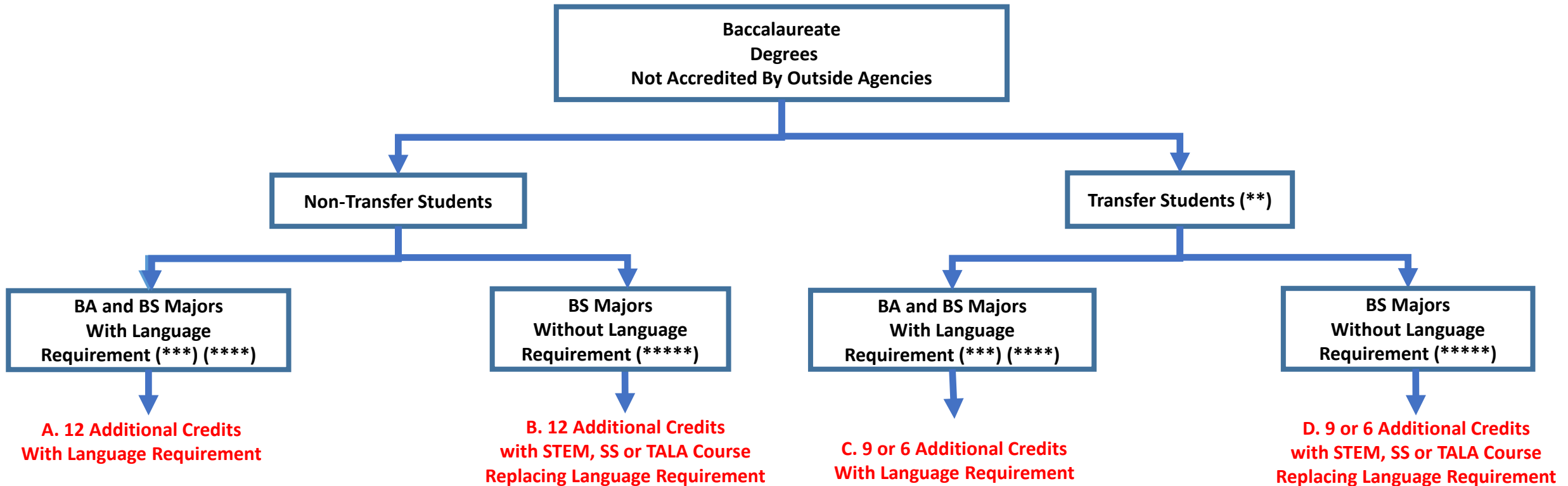
Selected in consultation with advisor. This advisor should be in discipline that the student may be thinking about continuing to a bachelor's degree.

(\*) BS Majors with Special Pathways Waivers and/or Exceptions.

(\*\*) There are no 200 level courses offered in the Pathways Flexible Core. 200 level courses may also satisfy the SS, TALA, P&D, and CW requirements of the Pathways College Option for baccalaureate degrees.

### III. Pathways College Option (Beyond the also required Pathways Required and Flexible Core (\*)):

Allowed CSI's general education requirements of courses at 200 or above level (except for laboratory and language courses), where at least six credits at the 200 level or higher must be taken in the Flexible Core and College Option combined.



(\*) These Pathways requirements are the same as those for associate degrees, except that all BA majors are required to take Lang 112 to satisfy the World Cultures and Global Issues area of the five areas in the Flexible Core.

(\*\*) Students who transfer in from a Bachelor's Degree to CSI must complete 12 credits in the College Option, shown for non-transfer students on left.

(\*\*\*) BFA (Bachelor in Fine Arts) would be included with the BS with language requirement, but it was not in existence when Pathways was rolled out.

(\*\*\*\*) BS majors are in :

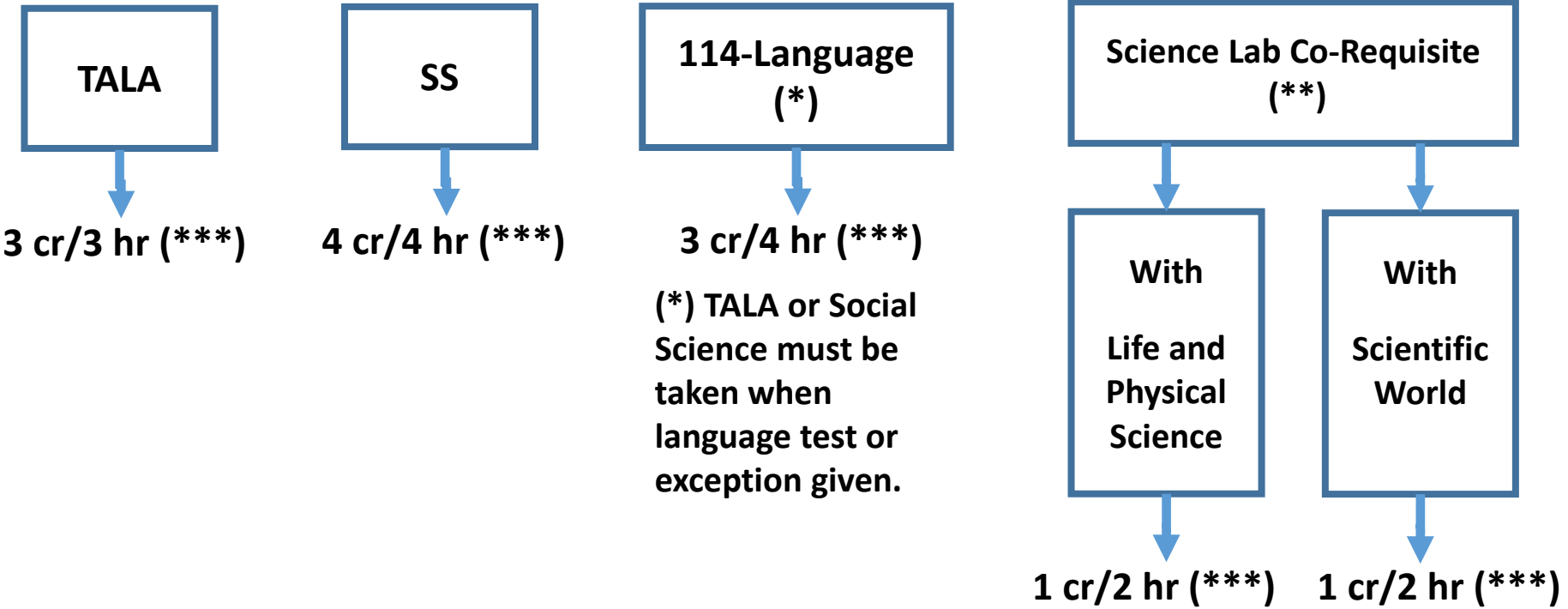
- Art;
- Business/International-Business Concentration;
- Communications;
- Dramatic Arts;
- Music;
- Social Work

(\*\*\*\*\*) BS majors are in :

- STEM disciplines;
- Accounting;
- Business;
- Economics;
- Psychology

**A. 12 Additional Credits in BA and BS Majors  
with Language Requirement**

- BS majors are in :
- *Art;*
  - *Business/International-Business Concentration;*
  - *Communications;*
  - *Dramatic Arts;*
  - *Music;*
  - *Social Work*



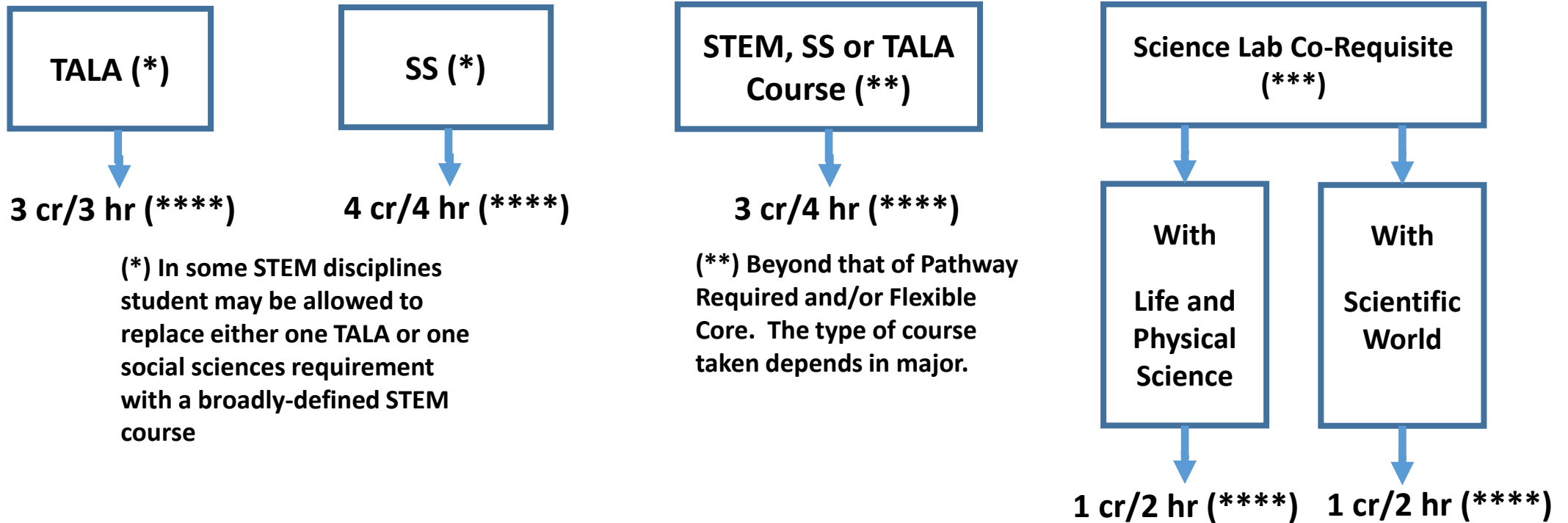
(\*\*) When student takes a science course with embedded lab this area would be deemed complete, e.g., in CSC 126, ENS 250, PHY 114, PHY 116, BIO 150, BIO 160.

(\*\*\*) Minimum requirement of credits/hours in this area, e.g., 3 or 4 cr for TALA and 4 cr/4 hr for 114-Language.

## B. 12 Additional Credits in BS Majors with STEM, SS or TALA Course Replacing Language Requirement

BS majors are in :

- *STEM disciplines;*
- *Accounting;*
- *Business;*
- *Economics;*
- *Psychology*



(\*) In some STEM disciplines student may be allowed to replace either one TALA or one social sciences requirement with a broadly-defined STEM course

(\*\*) Beyond that of Pathway Required and/or Flexible Core. The type of course taken depends in major.

(\*\*\*) When student takes a science course with embedded lab this area would be deemed complete, e.g., in CSC 126, ENS 250, PHY 114, PHY 116, BIO 150, BIO 160.

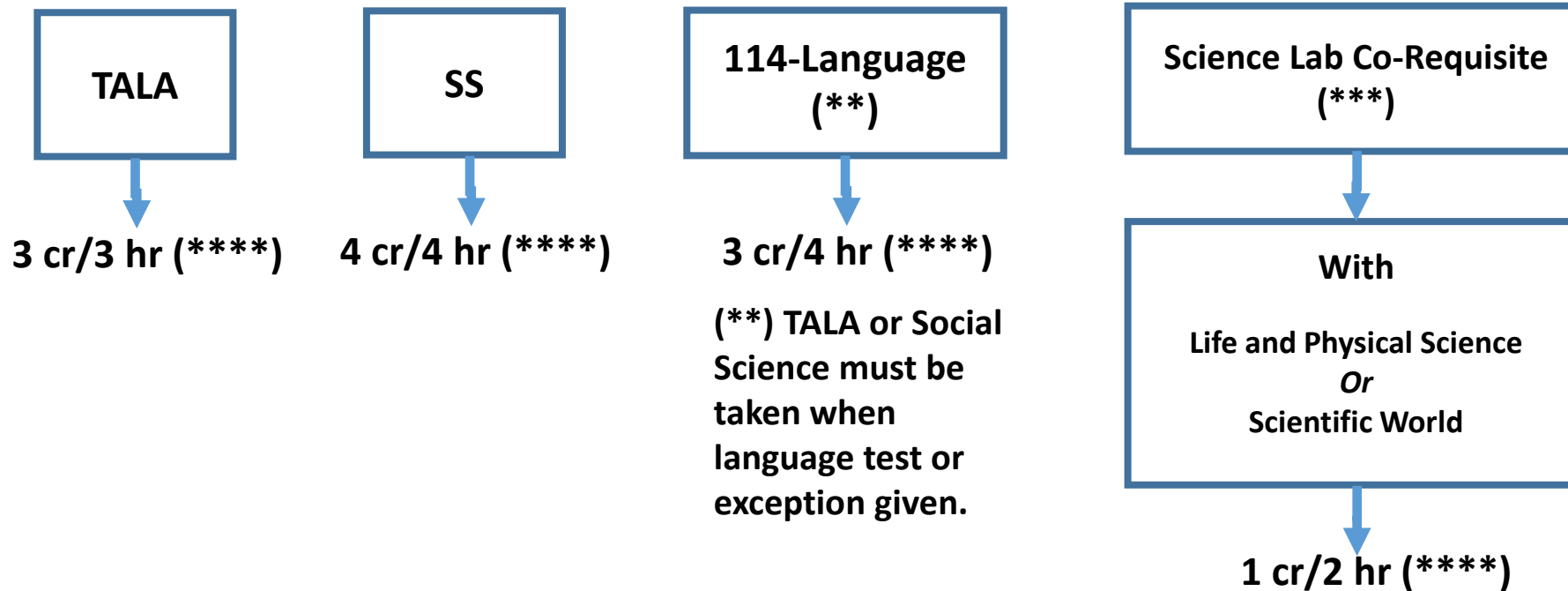
(\*\*\*\*) Minimum requirement of credits/hours in this area, e.g., 3 or 4 cr for TALA.

## C. 9 Additional Credits of College Option (\*) in BA and BS Majors with Language Requirement

(For student transfers with 30 or more credits from Associate Program and NO Degree)

BS majors are in :

- *Art;*
- *Business/International-Business Concentration;*
- *Communications;*
- *Dramatic Arts;*
- *Music;*
- *Social Work*



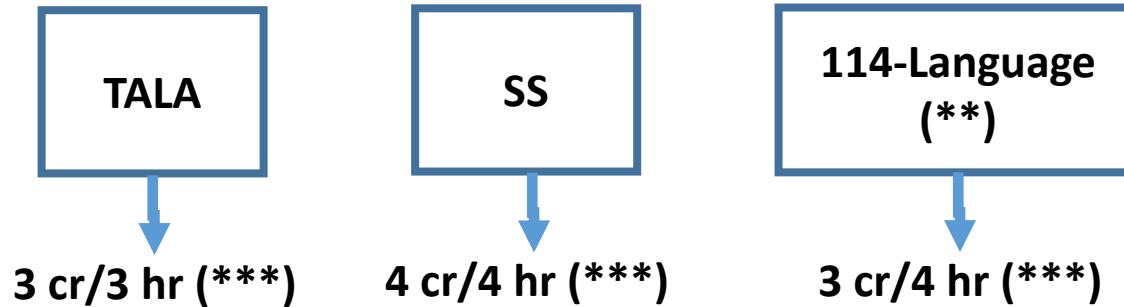
(\*) 8 of 9 additional credits must be satisfied by taking two courses in two of the three major areas, i.e., TALA, Social Science and 114-Language depending in major.  
(\*\*\*) When student takes a science course with embedded lab this area would be deemed complete, e.g., in CSC 126, ENS 250, PHY 114, PHY 116, BIO 150, BIO 160.  
(\*\*\*\*) Minimum requirement of credits/hours in this area, e.g., 3 or 4 cr for TALA and 4 cr/4 hr for 114-Language.



**C. 6 Additional Credits of College Option (\*) in BA and BS Majors  
with Language Requirement  
(For student with AA or AS Degree)**

BS majors are in :

- *Art;*
- *Business/International-Business Concentration;*
- *Communications;*
- *Dramatic Arts;*
- *Music;*
- *Social Work*



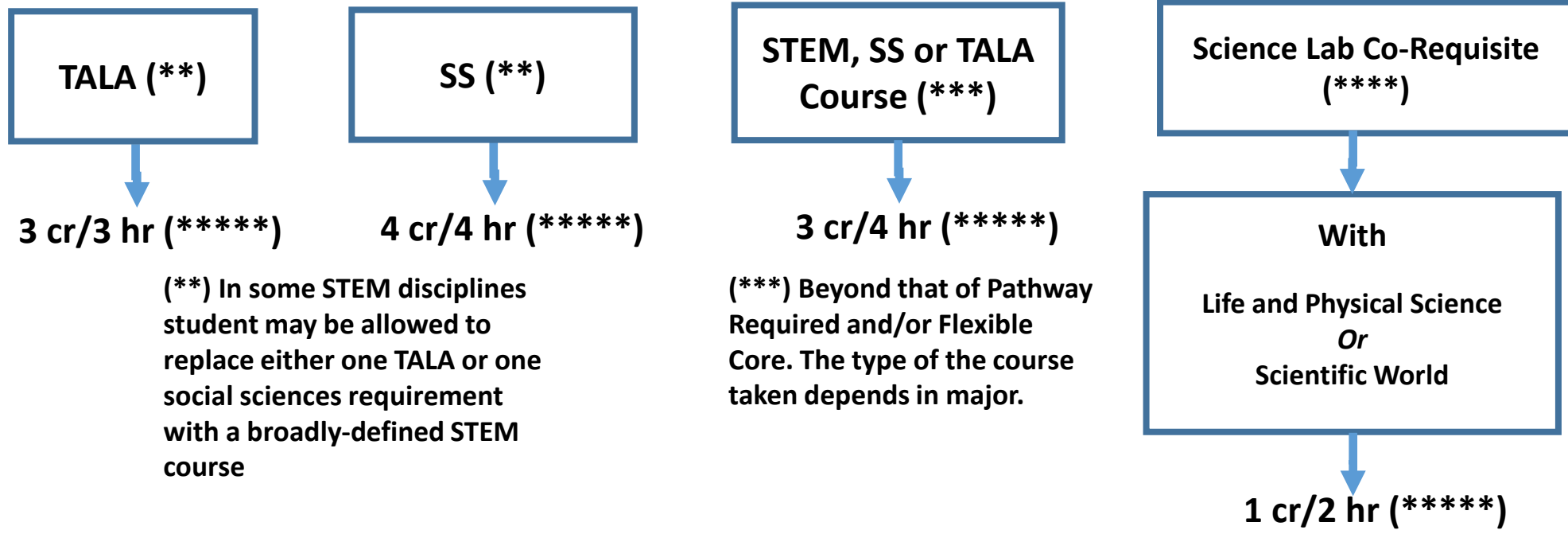
(\*\*) TALA or Social Science must be taken when language test or exception given.

(\*) 6 credits may be satisfied by taking two courses in two of the three major areas, i.e., TALA, Social Science and 114-Language depending in major.

(\*\*\*) Minimum requirement of credits/hours in this area, e.g., 3 or 4 cr for TALA and 4 cr/4 hr for 114-Language.

**D. 9 Additional Credits (\*) in BS Majors  
with STEM, SS or TALA course replacing Language Requirement  
(For student transfers with 30 or more credits from Associate Program and NO Degree)**

- BS majors are in :
- *STEM disciplines;*
  - *Accounting;*
  - *Business;*
  - *Economics;*
  - *Psychology*



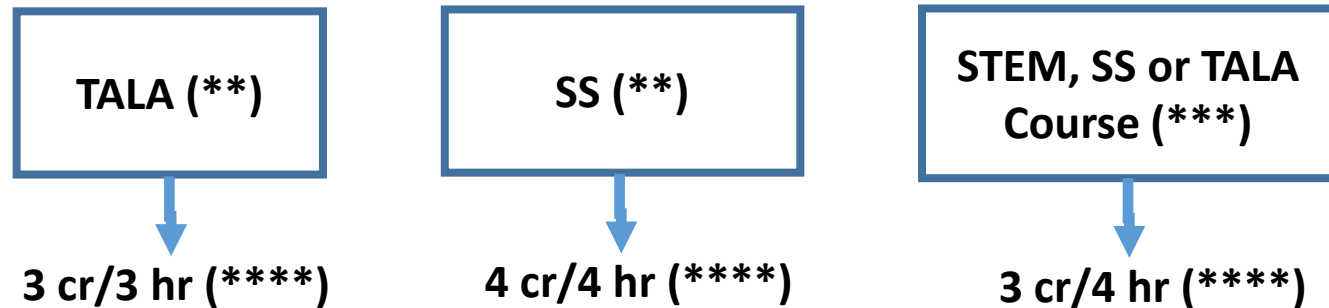
(\*) 8 of 9 additional credits must be satisfied by taking two courses in two of the three major areas, i.e., TALA, Social Science and STEM.

(\*\*\*\*) When student takes a science course with embedded lab this area would be deemed complete, e.g., in CSC 126, ENS 250, PHY 114, PHY 116, BIO 150, BIO 160.

(\*\*\*\*\*) Minimum requirement of credits/hours in this area, e.g., 3 or 4 cr for TALA.

**D. 6 Additional Credits (\*) in BS Majors  
with STEM, SS or TALA course replacing Language Requirement  
(For student with AA or AS degree)**

- BS majors are in :
- *STEM disciplines;*
  - *Accounting;*
  - *Business;*
  - *Economics;*
  - *Psychology*



(\*\*) In some STEM disciplines student may be allowed to replace either one TALA or one social sciences requirement with a broadly-defined STEM course

(\*\*\*) Beyond that of Pathway Required and/or Flexible Core. The type of the course taken depends in major.

(\*) 6 credits may be satisfied by taking two courses in two of the three major areas, i.e., TALA, Social Science and STEM.

(\*\*\*\*) Minimum requirement of credits/hours in this area, e.g., 3 or 4 cr for TALA.

## Flowchart description of the Pathways' CW and P&D requirements

P&D (\*)  
with  
ENG 111 Prerequisite



One 3 or more credit courses (\*\*)

CW (\*)  
with  
ENG 151 & Core 100 Prerequisites



One 3 or more credit course (\*\*)

- (\*) One course in this area at the 200 level or higher must be taken to fulfill at least one of the following pathways requirements:
- a) In Flexible Core ( a course of 3 credits);
  - b) In College Option (a TALA or Social Science course of 3 or more credits).
- (\*\*) 3 credit courses are not yet available for both the CW and P&D areas.

# Abbreviated Terms

**AA: Associate in Arts**

**AAS: Associate in Applied Sciences**

**AS: Associate in Science**

**BFA: Bachelor in Fine Arts**

**BS: Bachelor in Science**

**CW: Contemporary World**

**P&D: Pluralism and Diversity**

**SS: Social Science**

**STEM: Science, Technology, Engineering and Mathematics**

**TALA: Textual, Aesthetic, and Linguistic Analysis**