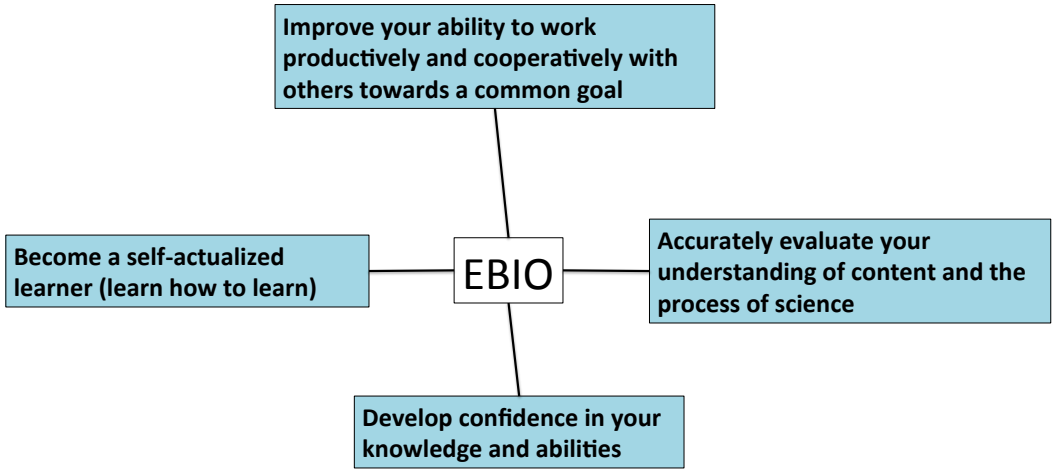
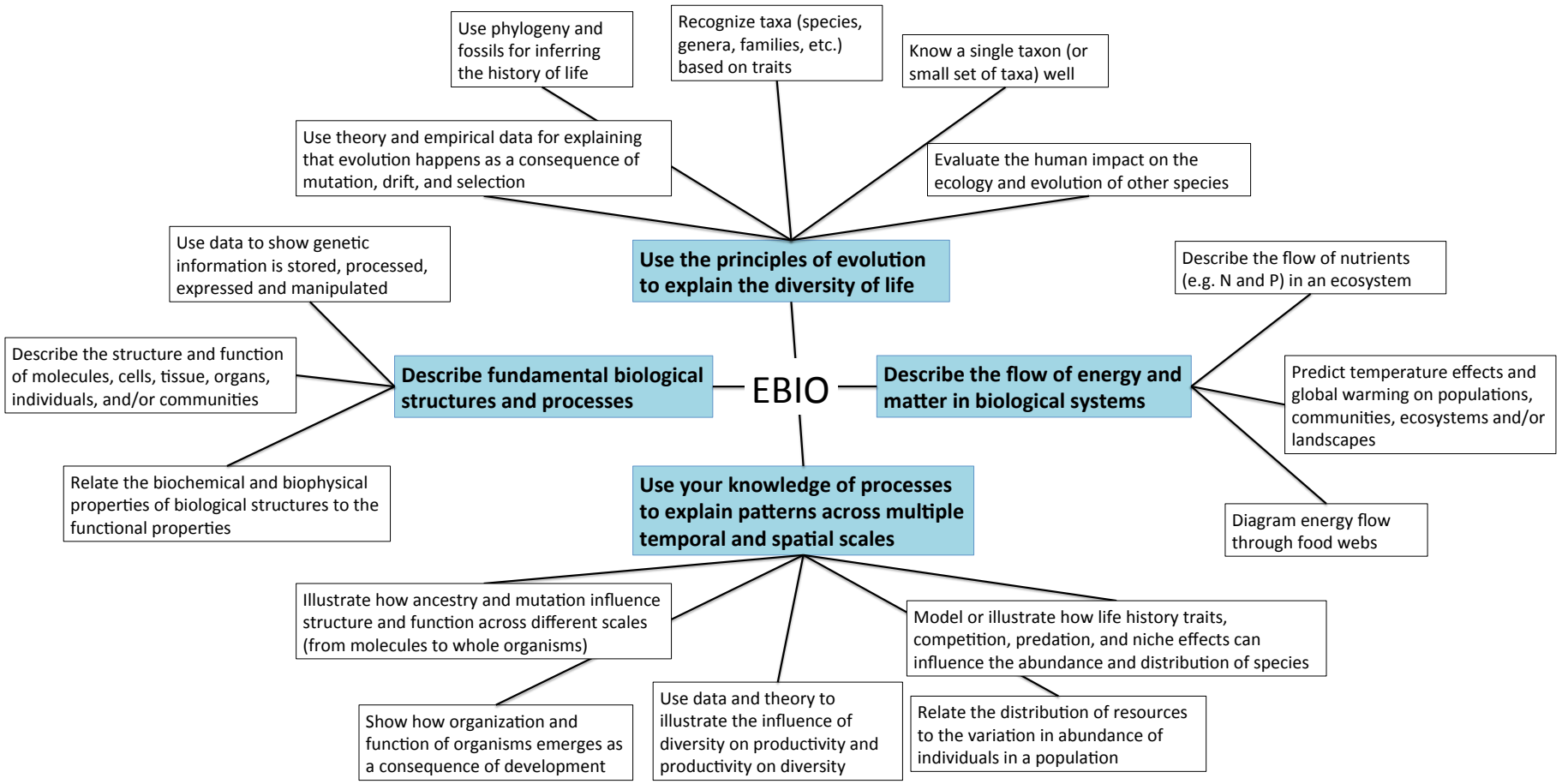
U. Of Colorado at Boulder
Ecology and Evolutionary Biology Majors' Learning Goals
version June 2015

Category	Central Learning Goals
Metacognitive	Improve your ability to work productively and cooperatively with others towards a common goal
	Become a self-actualized learner (learn how to learn)
	Accurately evaluate your understanding of content and the process of science
	Develop confidence in your knowledge and abilities
Content	Use the principles of evolution to explain the diversity of life
	Describe fundamental biological structures and processes
	Describe the flow of energy and matter in biological systems
	Use your knowledge of processes to explain patterns across multiple temporal and spatial scales
Process	Engage in observation-discovery and hypothesis-driven studies of biology
	Collaborate with people of varying knowledge and points of view towards common goals
	Effectively communicate scientific content, methods and thinking
	Decipher, assess the validity, and gauge the uncertainty of scientific claims

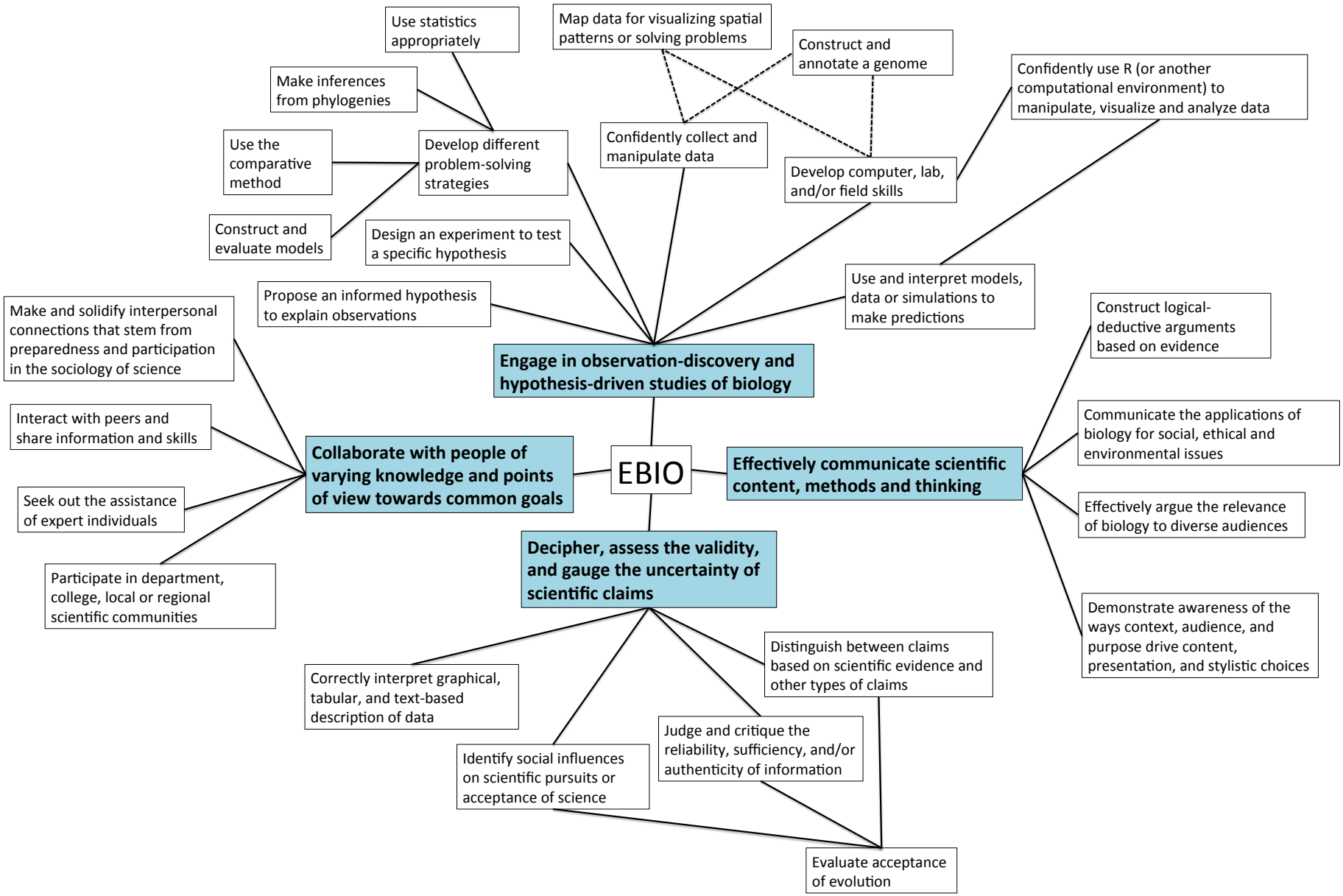
Metacognitive Learning Goals

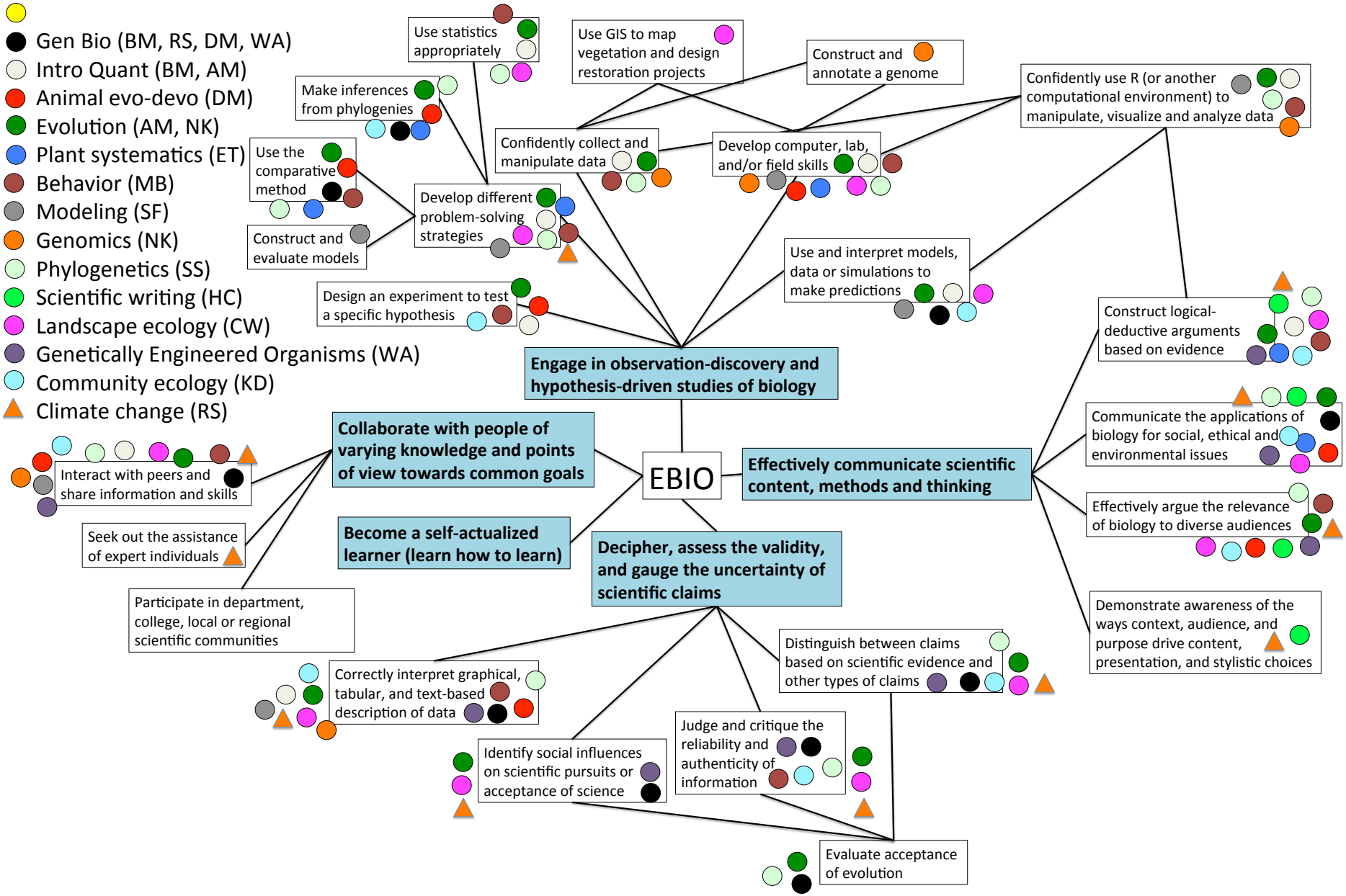


Content Learning Goals



Process Skills Learning Goals



Process Skills Learning Goals Aligned with EBIO Courses and Instructors (initials)

- Gen Bio (BM, RS, DM, WA)
- Intro Quant (BM, AM)
- Animal evo-devo (DM)
- Evolution (AM, NK)
- Plant systematics (ET)
- Behavior (MB)
- Modeling (SF)
- Genomics (NK)
- Phylogenetics (SS)
- Scientific writing (HC)
- Landscape ecology (CW)
- Genetically Engineered Organisms (WA)
- Community ecology (KD)
- Climate change (RS)