

Assessing Practical Skills in a Large Programming Class

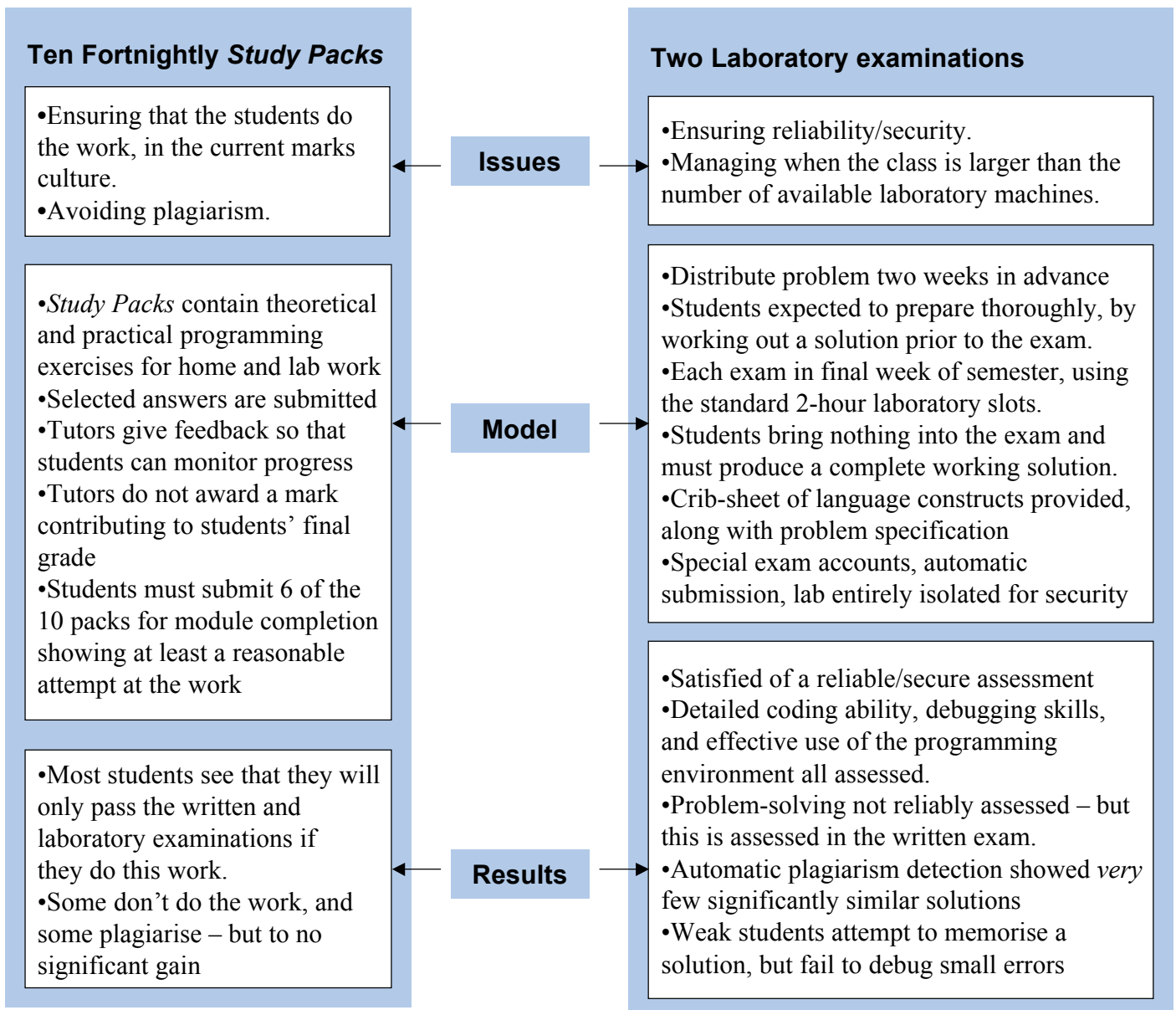
Problem – Continually-assessed exercises are unreliable and disrupt the learning process

Assessment usually consists of a combination of coursework exercises and a written examination.

The examination successfully tests problem solving and high-level coding skills.

The exercises test problem solving, coding and debugging skills, but emphasise **mark-chasing** over learning and understanding, encouraging **stress** and **plagiarism** in the learning phase of the module.

Suggestion – Retain written exam and split coursework exercises into fortnightly exercises and laboratory examinations



Conclusions

- Students who attempt memorisation only score highly if they have effective coding and debugging skills
- The laboratory set-up is expensive – we are developing cheaper methods of ensuring the required security
- Separation of learning and assessment viewed as positive by most students and staff
- We are developing the skill of setting problems of the right size and complexity