ACT Board of Senior Secondary Studies

Public Consultation Report

Shape Paper: Interdisciplinary Science A/T/M

- This report has been prepared following public consultation.
- All feedback submitted as part of the consultation process has been recorded and analysed.
- The responses to the feedback have been compiled following the deliberations of the Shape Paper writing team.
- Amendments to the Shape Paper have been made where required, as a result of the consultation process.

Topic	Comment	Course Development Team Response
Q1 Which school are you from?	2 responses	
	2 ED (same school)	
Q2 Shape Paper Background	1 agree	
The background provides a	1 disagree	
clear sense of the disciplinary,		
systemic and national	1. Whilst the framework is clear and comprehensive, I do	1. Schools may market the course as they see best. The
parameters under which the	not consider the integration of the courses of forestry,	categories of the course allow teachers to cater directly to
course will be written.	Flight and Oceanography matches student interest nor	student interest, and to build on interesting new
	teacher interest. There is one brief statement that this	developments in science. The improved communities of
	integration of courses will facilitate broader communities	learning and quality assurance, and the reduced risk to
	of learning. This appears to be a broad generalised	students of losing their highly specialised teacher and
	statement that I haven't observed as a leader within a	therefore their planned major, are benefits of this course
	school where Flight is taught. I have spoken to current	structure. Schools may also consider using the
	and ex-students of flight. Their comments included the	Interdisciplinary Inquiry course.
	fact that they would have been less likely to choose the	
	course with the label of interdisciplinary Science and	
	their first question consistently was - "can we learn the	
	same stuff. Labelling of subjects as distinct subjects such	
	as "Flight" attracts students to enrol. Taking away the	
	label will significantly reduce interest and enrolments in	
	my view for these subjects. Whilst the content may be	
	permitted in the course, the lack of being able to name	
	the subject will reduce participation in my view. At this	
	school some students choose to study both Flight and	
	Interdisciplinary Science as separate courses. Whilst the	
	numbers may be low, reducing student choice to study	
	what they want seems to defy the logic of the shape	
	paper of catering to student interest and need.	

	2. Parameters are clear, however the distinction between multidisciplinary/interdisciplinary/convergence research	2. The course is focused on interdisciplinary science and problems that requires knowledge from multiple disciplines
	has not been made explicit. Is it understood that	to understand. Products of cross-disciplinary research may
	"interdisciplinary science" means "interdisciplinary	be studied or used by students, however, the goal is for
	science", or is this term being used interchangeably for	students to investigate problems that draw on knowledge
	any cross-disciplinary approach to research?	from multiple disciplines. Their application of science
	any cross disciplinary approach to research.	inquiry skills should be interdisciplinary, not in
		multidisciplinary groups.
Q3 COURSE GOALS The "Aims	1 agree	The state of the s
of the Interdisciplinary	1 disagree	
Science Curriculum" is clear		
about the intended	1. Whilst the holisitic aims are sound, the claim that this	1. Transitions arrangements can be made for the few
learning and priorities, yet	creates flexibility is not agreed. A current student studies	students in that category. Overall, flexibility in curriculum
allows for flexibility.	Flight and Interdisciplinary Science at my School. This	delivery is quite evidently increased. Consider the use of the
	course, if implemented as a replacement to the courses	Interdisciplinary Inquiry A/T/M in addition.
	of Flight, Oceanography and Forestry seem to reduce	
	Flexibility	
Q4 The rationale for the	1 agree	
course and unit structure is	1 disagree	
well-explained and well-		
justified	1. There is very limited evidence of the rationale of	1. Teachers can continue to deliver courses focused on
	change to delete some of the courses this would replace.	these areas. These areas of study are inherently
	The concept of interdisciplinary Science is sound and the	interdisciplinary.
	approach of studying "uninhibited by disciplinary	
	Boundaries" "rather than limited by boundaries of	
	disciplines" is fine. However, it seems to contradict the	
	value of allowing the traditional Flight or Forestry or	
	Oceanography programs to fully run within this banner.	
Q5 The proposed units are	2 disagree	
conceptually distinct		
	1. There is a fundamental difference of opinion about	1. Schools can market as they see best. Teachers can
	equity and opportunity. Many students value and choose	continue to deliver courses focused on these areas. These
	subjects due to the label and utilise these for diverse	areas of study are inherently interdisciplinary.
	reasons. Cutting the labels of Forestry, Flight and	

		2. The contract of the different of the desired of
	Oceanography seems less inclusive of student interest	2. The units might also be differentiated by induction or
	and needs	deduction. Or in following the distinction noted by the
		respondent. The teacher's program of learning will make
	2. The rationale states the importance of "investigating	the specific 'Science Understanding' concepts explicit. They
	the complex relationships between systems and domains	will have the flexibility to choose the specific science
	of science" This theme runs strongly through each unit,	understanding concepts to develop.
	with the remaining differences appearing subtle. E.g.,	
	"Uncovering Interdisciplinary systems" vs "exploring	
	interdisciplinary systems": Both units emphasise real-	
	world situations and case studies. The former introduces	
	IDS, whereas the latter appears to focus on examples and	
	case studies demonstrating the application of IDS. The	
	units appear to be differentiated by a student's stage of	
	progression through the course – not unique any Science	
	Understanding.	
Q6. The unit descriptions are	1 agree	
clear and provide for	1 disagree	
innovative approaches	1 disagree	
innovative approaches	1. Not with steading the appearus of the deletion of the	1. This proposal is suitaide the promisers of this group
	1. Not withstanding the concerns of the deletion of the	1. This proposal is outside the purview of this group.
	three courses previously mentioned, I wonder if there is	
	scope to incorporate units from other Science courses	
	within this course. For example, a student who had	
	completed a unit in Chemistry but not a course could	
	feasibly incorporate this into this course. As a Science	
	teacher and school leader I feel I have some sense of	
	what the community understands. I believe the term	
	interdisciplinary Science could be seen by some as	
	valuable if there was an explicit opportunity to include	
	individual units from other Science Courses - with a	
	potential core from the actual Course. I consider this skill	
	set of including units from other Science courses could	
	provide an additional broader community acceptance	
	and understanding of the value of the interdisciplinary	
	Science course. I studied Physics, Geology, Chemistry,	
	Biology, Agriculture and animal and plant Physiology as	
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	distinct units and courses at University. These units and	
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	courses individually contributed to a generic Science	
	Degree. Whilst the units described for this course can	
	provide the diversity of learning across disciplines - and	
	this can happen well as written - I dont think such a	
	broad umbrella term of interdisciplinary Science should	
	be pigeon holed to exclude the addition of additional	
	units from the other Science Courses.	
Q7 "Considerations", situates	1 agree	
the course clearly in relation to	1 disagree	
curriculum priorities		
F	Whilst the term "interdisciplinary Science" provides a	1. The existing courses are not excluded. The opportunity to
	broad opportunity to raise the STEM learning capabilities	provide learning opportunities valued by students continues
	of students, I consider this should not occur with a	through the mechanism of this course.
	premise of including other courses under its umbrella	through the mechanism of this course.
	(and loss of naming of these other courses). I struggle to	
	understand the rationale for excluding some courses that	
	are valued by teachers and students even if low numbers.	
Q8 This proposed course is	2 disagree	
distinct from other BSSS		
accredited courses.	1. I would seek this course to be inclusive of units from	1. This proposal is outside the purview of this group.
	other science courses (assuming students don't have a	and proposed to detected the partition of time group.
	course in the other science) as an option to broaden the	2. The science understanding concepts in problems studied
	value and appeal of this course.	in Interdisciplinary Science are inherently interdisciplinary.
	value and appear of this course.	The science understanding will arise out of the problems
	2. For students studying IDC as their only science source	-
	2. For students studying IDS as their only science course	and phenomena studied. Teachers will make explicit the
	in college, this lets them study "a little bit" of the content	science learning expectations in their program of learning.
	from multiple science courses. Hence, the underpinning	
	Scientific Understanding will not be unique. The point of	
	difference looks to be the strong focus on the process of	
	integration. IDS emphasises the strands of Science Inquiry	
	Skills & Science as a Human Endeavour, with Science	
	Understanding appearing to provide the context for case	
	studies, or the material students will draw upon and	
	integrate. This provides students and teachers with the	
	opportunity to explore many examples of	

interdisciplinary integration of knowledge, however I	
don't believe pre-existing courses such as Flight or	
Agriculture will map across to IDS without losing	
significant emphasis on the strand Science	
Understandings.	

