

title	Designing a Modular Sit-Ski for the US Paralympic Ski Team
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additional	
department	Mechanical Engineering
proj_desc	A Mechanical Engineering Senior Design Team is currently designing a sit ski for a member of the US Paralympic Cross Country team. During interviews with coaches and other team members, it became apparent that a modular/adjustable sit ski that could vary the seat height and angle of the athlete would help identify the individual position that would enable the most power to be generated by the athlete. A senior design project will be created for the Winter/Spring sequence to design this adaptable sit ski. This design might also be used as an adjustable frame that can be used by different recreational cross country skiers with disabilities .
inter_desc	It would benefit the team if an honors kinesiology student was involved. This student could help determine skier power output, optimal body positioning, and the different human factors issues involved. If a kinesiology student is not available, a biomedical engineer could also be used. It would help to have the student for both Winter and Spring quarters.
links	
students	1
majors	KINE, BMED
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