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## THE ENGINEERING DEPARTMENTS

### Need Additional Instructors, Equipment, Buildings, Increased Salaries and Library Books

To get a proper basis for consideration of our needs for the next two years, it will be necessary to calculate approximately the number of students which may be expected during the second year of the biennium. The present number of engineering students is 81, and it is expected that at least six more students will enter at the second semester, making 87 for the year. This will make an increase of nearly 53 per cent during the past two years. Considering the growth of high schools, the great activity in all lines of engineering, and the increasing number of young men who are turning toward engineering, there is every indication that the growth will be more rapid than in the past. A conservative estimate of an increase of 30 per cent over this year, making 113 students, and for the second year of the biennium over next year, making 147 students to be provided for during the last half of the biennial period, is a fair estimate of prospective students. This growth will be still more certain to come if in the meantime the engineering departments are properly housed and equipped, as this very fact will be a stimulus as soon as known.

The needs of the engineering departments are put forth as follows:

1. Additional Instructors.—Railroad engineering has had little attention for two reasons, partly because the instructional force is too limited; and partly because, until very recently, there has been for a long time, practically no activity in railroad construction in this state. The present and prospective activity in railroad work throughout the Northwest lay upon us the burden of greatly amplifying our courses in railroad engineering. There is already a demand for this on the part of some of our present students, and the demand is certain to increase during the coming year. To meet this need a new instructor will be required. He should have some actual experience in railroad work, be possessed of a good engineering

education, and if possible have some experience in teaching. Such a man would command a salary of not less than \$1800 per annum.

The department of mining engineering needs additional instructors. The rapid growth of this department demands that it be well manned and well equipped. The proper kind of head instructor should receive a salary of \$1800.

The department of electrical and mechanical engineering will soon need a permanent man to take charge of the shop work. A salary of \$700 or \$800 per year would probably suffice at the start.

These are the actual needs of the above departments. By careful investigation of the department of other state universities, it was found that the average cost of instruction per student was \$85 per year. If this be granted, and if the estimate of 147 students during the last half of the biennium be reasonable, then provision should be made at the session of the present legislature for the expenditure of over \$12,000 in salaries of the engineering instructors during the next two years, ( $\$85 \times 147$  equals \$12,495). This would provide for the additional instructors needed, and for present salaries.

2. Additional Equipment.—The equipment is incomplete in many respects and of insufficient amount in others. The shops need more equipment, the testing laboratory has not enough machines to accommodate properly the present number of students, to say nothing of the increase for the next two years; the surveying instruments are just about sufficient for present needs, but more will be required next year, and still more the year following; considerable new apparatus ought to be added for electrical work; the mining equipment is very meagre, and a substantial increase should be made there; and a hydraulic laboratory ought to be provided for experimental work.

Additional equipment must be provided or Oregon will fall below the average of the departments of the other state universities. Accordingly, to be on a basis with the average other institutions, the equipment should be increased over \$30,000 during the next two years. This

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## BASEBALL IN TRAINING

### Regular Practice Commences at the Gymnasium for Numerous Candidates

With the return of Coach Bezdek, baseball has taken a new impetus. Practices are held on Tuesdays, Wednesdays, Fridays and Saturdays in the gymnasium. Coach Bezdek is starting the training by instructing the various candidates for positions in the rudiments of the game. He is giving the pitchers a new style of delivery, one in which the entire body comes into play.

College pitchers seldom develop this style of delivery but use merely an arm movement, with the result that their pitching arm soon gives out.

Nearly all of last year's players have returned to college, only three, Brown, Fenton, and Hobbs having been lost by graduation.

All of the old pitching staff, composed of Beck, Clifford and Hurd, are turning out for practice and the corps will undoubtedly be strengthened by the presence of Harvey Huston who has been showing up well in practice and who made quite a name for himself while pitching for the Missoula Amateurs. "Buck" Kelly and Wistar Johnson are the only candidates so far for the difficult position of catcher but with these men trying out, the fact goes without saying that the place will be well filled.

For the infield, two new men will have to be developed to take the places of Hobbs and Fenton, but from the apparent abundance of good material this should not be difficult.

Of the old infielders, Captain Paine, Hatheway and Ramp will be on hand to win glory for Old Oregon. Some of the new men who will try out for the infield are, McKenzie, who formerly played third base for the Athena Yellow Kids; Huggins, shortstop last year for Hill Military Academy, and Everett Sherk, lately on the second team at Whitman College. Other aspirants are Nelson, McEwen, Snow and Wood.

For the outfield positions some of the

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