## STUDENT COURSE IN RAILROADING

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Student Course in Railroading by Fred G. Athearn

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### FRED G. ATHEARN

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Trieste

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By FRED G. ATHEARN Manager of the Bureau of Economics of the Southern Pacific Company

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#### INTRODUCTION.

This outline of work and reading in railroading is not designed to be a complete and exhaustive study of the subject. Its aim is to be a "laboratory" course, as it were, to fit young men to assume positions of responsibility in the management of railroad affairs, and to prepare them in such a way that they may have a working knowledge of the several departments and their inter-relation, so that they may be able to conduct the particular duties assigned to them in harmony with the scheme of railroading as a whole.

For constructive criticism, I am indebted to Mr. William Sproule, President; Mr. E. E. Calvin, Vice-President in charge of Operation and Construction; Mr. A. D. McDonald, Auditor; Mr. E. O. McCormick, Vice-President in charge of Traffic; Mr. W. R. Scott, General Manager; Mr. G. F. Richardson, Superintendent of Transportation; Mr. J. M. Davis, General Superintendent; Mr. J. M. Brewer, Freight Claim Agent; Mr. Thomas A. Graham, General Freight Agent; Mr. W. F. Taylor, Assistant General Freight Agent; Mr. W. C. Dorsey, Chief Clerk, Auditor of Disbursements: Mr. Norman Collyer, of the President's office; and Mr. L. A. Giamboni, Assistant in the Bureau of Economics; all of the Southern Pacific Company; Mr. Paul Shoup, President. Pacific Electric; and Major Charles Hine, Vice-President and General Manager, Southern Pacific of Mexico.

F. G. A.

San Francisco, December, 1912.

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#### DESIGN OF COURSE IN BALLBOADING.

The course is so designed that the first two years will cover the entire field of railroading in a general way. The work of the railroad is divided into three main groups, Operation and Maintenance, Passenger and Freight Traffic, and Accounting.

After the completion of the first two years, there follows one and one-half years of special work in each of the several main divisions.

This plan has the merit that it gives a general training in all of the principal departments of the railroad. This gives the student the knowledge that is so necessary to conduct properly the work of any given department in which he may later specialize in harmony and in co-ordination with all the other departments of the road.

At the end of the first two years of the course, the student is assigned to special work, for one and onehalf years in one of the three main divisions. The particular division to which he is assigned depends upon the student's own inclinations, coupled with his qualifications as determined by his record and the observations of the Officer in Charge of Students.

#### TABLE OF CONTENTS.

.

33

		P	AGE
General	l Cours	ie	9
1st	Period,	Student in Station Service	9
2nd	44	Assistant Section Foreman, Maintenance of	
		Way Service	14
3rd	f.	Student in Office of Superintendent of Trans- portation	17
4th	ы	Student under Master Mechanic	21
5th	ac.	Student Brakeman and Conductor	23
6th	61.	Student in Accounting department, Statistical	60
our		Bureau	25
7th	44	Student in Tariff Burcau	28
Operation and		Maintenance	29
1st Period,		Student with Division Engineer	30
2nd	**	Student under Master Mechanic	31
3rd	**	Student in Signal Engineer's Office	33
4th	**	Student in the Stores Department	34
5th	66	Student in General Manager's Office	35
<b>6th</b>	11	Student with Trainmaster	37
Passenger and Freight Traffic			53
		artment—Foreword	41
1st 1	Period,	Passing Report Clerk at Gateway Junction	
		Point	53
2nd	. 66	Student in Passenger Ticket Office	55
3rd	45	Student Solicitor in Large City	57
4th	**	Student District Freight and Passenger Agent	59
Account	ting		61
1st Period,		Student with Auditor of Freight Accounts	63
2nd	4	Student with Auditor of Passenger Accounts	64
3rd	**	Student in Division Account Bureau at Divi-	1993
		sion Headquarters	65
4th		Student with Auditor of Disbursements	67
5th	64	Student with Auditor of Equipment Accounts	68
(1) (2) (3)			00

ï

Table of Contents

	AGE
General Information	69
Instructions to Students	69
Instructions to Officers	70
Wage Schedule	72
Expense Account	73
Payroll	73
Relief from Student Salary and Expense Account Charge	73
Appointments	74
Applications	74
Credit on Course of Study for Experience	75
System of Grading Students	75
Relations of the Railroad to the People	76
Bibliography	